

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

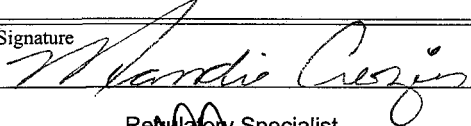
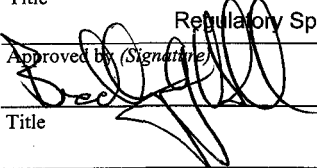
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-67845
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Humpback Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Humpback Federal R-25-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-04739973
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/SW 667' FSL 2014' FWL At proposed prod. zone 1335' FSL 2650' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 16.4 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 25, T8S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1310' f/lse, 1335' f/unit	16. No. of Acres in lease 560.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1302'	19. Proposed Depth 6520'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5019' GL	22. Approximate date work will start* 2 nd Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 3/14/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 05-31-08
Title Office	Office ENVIRONMENTAL MANAGER	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

MAR 18 2008

DIV. OF OIL, GAS & MINING

Sur f

588974X Federal Approval of this  
4437333Y Action is Necessary  
40.083470  
-109.956429

BHL 589166X  
44375384  
40.085299  
-109.954142

*T8S, R17E, S.L.B.&M.*

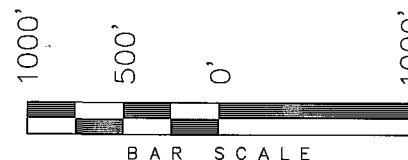
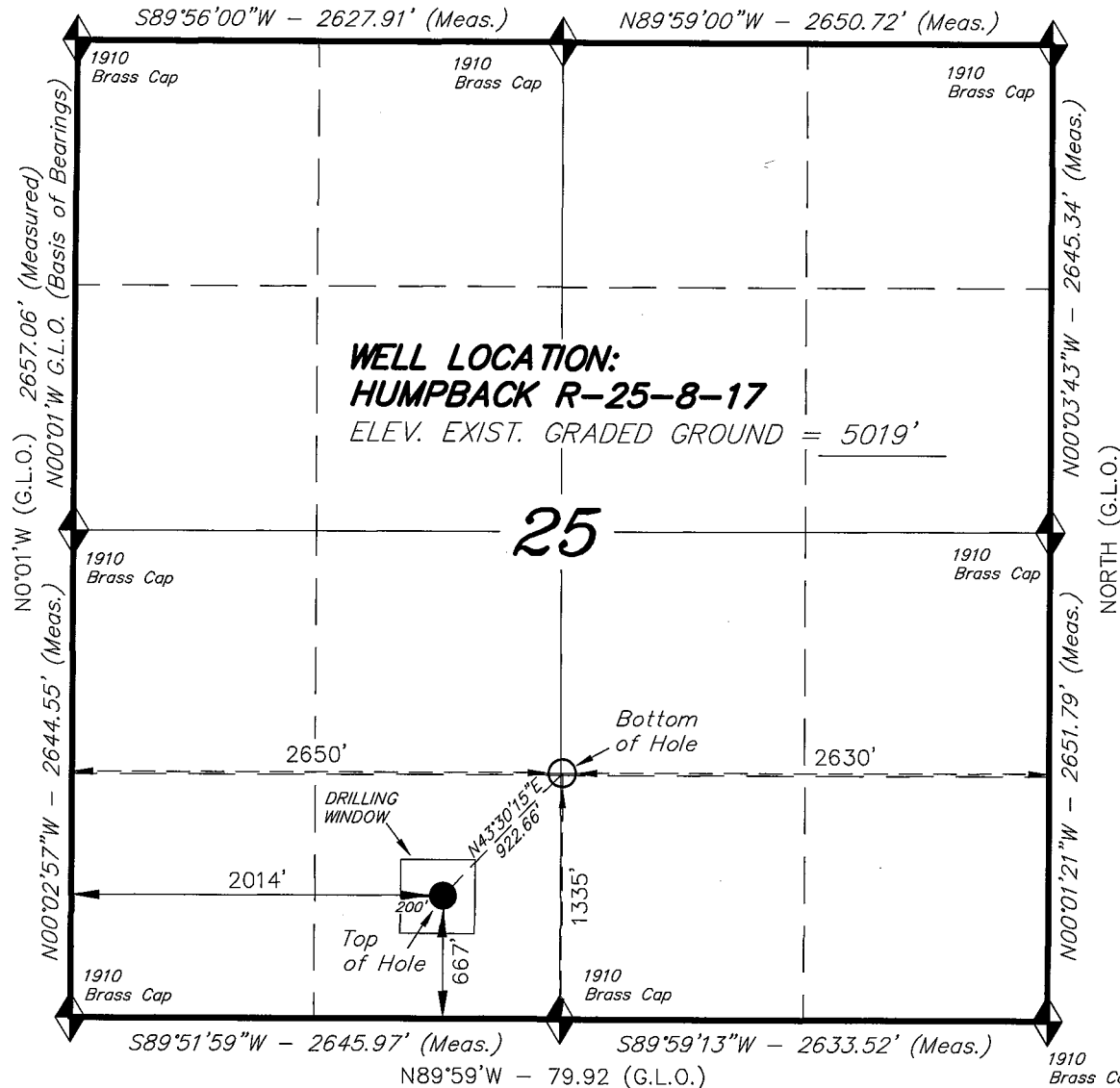
N89°58'W - 79.90 (G.L.O.)

$S89^{\circ}56'00''W - 2627.91'$  (Meas.)

$N89^{\circ}59'00''W - 2650.72'$  (Meas.)

*NEWFIELD PRODUCTION COMPANY*

WELL LOCATION, HUMPBACK R-25-8-17,  
LOCATED AS SHOWN IN THE SE 1/4 SW  
1/4 OF SECTION 25, T8S, R17E,  
S.L.B.&M. UINTAH COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W

REGISTERED LAND SURVEYOR  
REGISTRATION No. 1200737  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

(435) 781-2501

DATE SURVEYED:  
01-08-08

SURVEYED BY: T.H.

DATE DRAWN:  
01-21-08

DRAWN BY: F.T.M.

REVISED:  
02-05-08 L.C.S.

SCALE: 1" = 1000'

 = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

HUMPBACK R-25-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 05' 00.71"  
LONGITUDE = 109° 57' 25.71"

**NEWFIELD PRODUCTION COMPANY  
HUMPBACK FEDERAL #R-25-8-17  
AT SURFACE: SE/SW SECTION 25, T8S, R17E  
UINTAH COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1681'
Green River	1681'
Wasatch	6520'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1681' – 6520' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
HUMPBAC FEDERAL #R-25-8-17  
AT SURFACE: SE/SW SECTION 25, T8S, R17E  
UINTAH COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Humpback Federal #R-25-8-17 located in the SE 1/4 SW 1/4 Section 25, T8S, R17E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 6.8 miles  $\pm$  to it's junction with an existing dirt road to the east; proceed in a easterly direction - 6.3 miles  $\pm$  to it's junction with an existing road to the southeast; proceed in a southeasterly and then a southwesterly direction - 1.2 miles  $\pm$  to it's junction with an existing road to the east; proceed in a northeasterly direction - 0.7 miles  $\pm$  to it's junction with the beginning of the access road to the existing Balcron Monument Federal 24-25-8-17 well location.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Balcron Monument Federal 24-25-8-17 well pad. See attached **Topographic Map "B"**.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the Balcron Monument Federal 24-25-8-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Humpback Federal R-25-8-17. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-10136

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond

Water Right: 47-1358

Newfield Collector Well

Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Humpback Federal R-25-8-17 will be drilled off of the existing Balcron Monument Federal 24-25-8-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests 610' of disturbed area be granted in Lease UTU-67845 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Resource Survey and Paleontological Resource Survey for the 610' of proposed water injection pipeline will be forthcoming.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

A cactus survey must be conducted prior to construction of the water line for the proposed Humpback Federal R-25-8-17.

### Reserve Pit Liner

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

### Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrel Tail	<i>Elymus Elymoides</i>	3 lbs/acre
Siberian Wheatgrass	<i>Agropyron Fragile</i>	1 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	0.5 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	0.5 lbs/acre
Fourwing Saltbush	<i>Atriplex Canescens</i>	0.5 lbs/acre
Scarlet Globemallow	<i>Sphaeralcea Conccinea</i>	0.10 lbs/acre

### Details of the On-Site Inspection

The proposed Humpback Federal R-25-8-17 was on-sited on 2/28/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), and Dave Gordon (Bureau of Land Management). Weather conditions were clear and ground covered by snow.

### LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

#### Representative

Name: Kevan Stevens  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

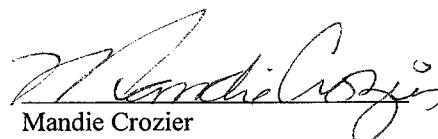
#### Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #R-25-8-17 Section 25, Township 8S, Range 17E: Lease UTU-67845 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3/14/08

Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



**Scientific Drilling**  
Rocky Mountain Operations

Project: Uintah County, UT NAD83 UTC  
Site: Humpback  
Well: Humpback R-25-8-17  
Wellbore: OH  
Design: Plan #1

**Newfield Exploration Co.**

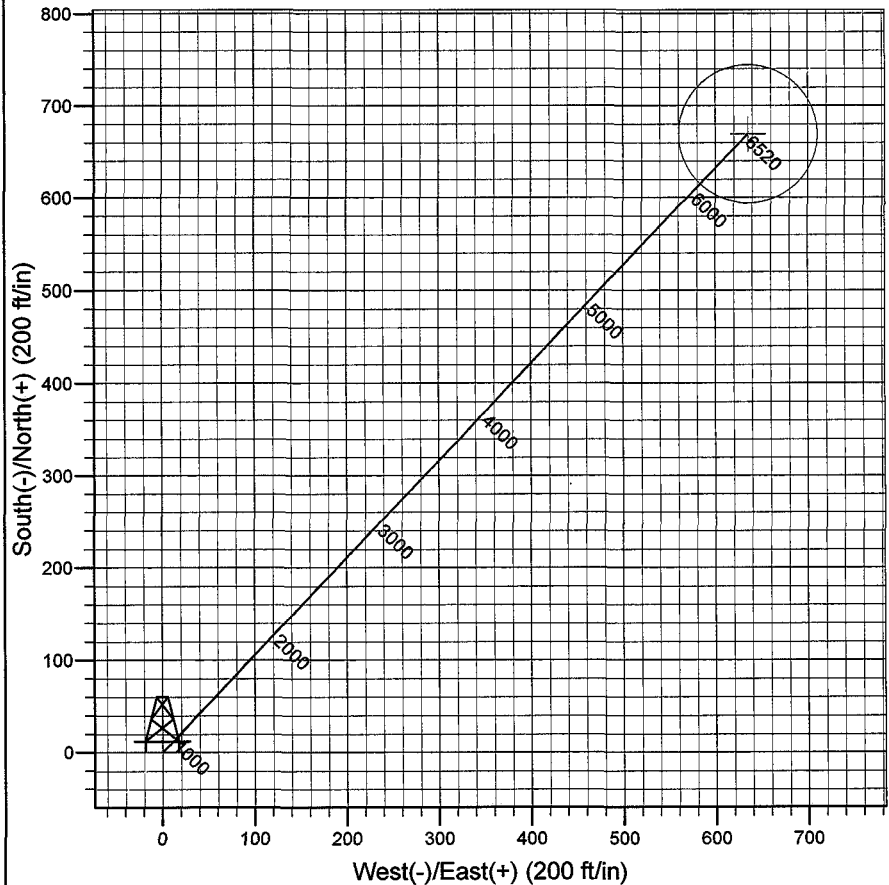
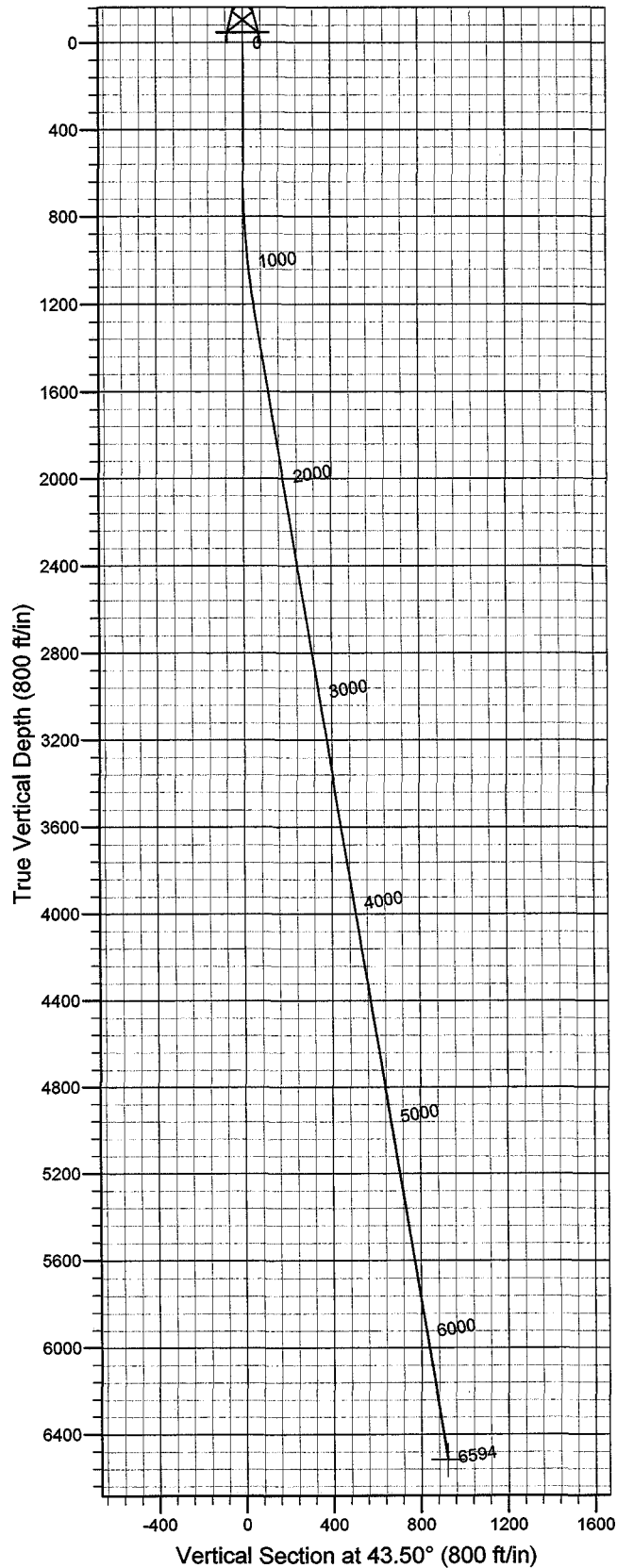


Azimuths to True North  
Magnetic North: 11.69°

Magnetic Field  
Strength: 52660.4snT  
Dip Angle: 65.94°  
Date: 2008-02-26  
Model: IGRF2005-10

WELL DETAILS: Humpback R-25-8-17

+N/-S	+E/-W	GL 5019' & RKB 12' @ 5031.00ft (NDSI 2)	5019.00
0.00	0.00	Northing	Easting
		7202887.51	2072084.46
		Latitude	Longitude
		40° 5' 0.710 N	109° 57' 25.710 W



Plan: Plan #1 (Humpback R-25-8-17/OH)

Created By: Julie Cruse Date: 2008-02-26

PROJECT DETAILS: Uintah County, UT NAD83 UTC

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone  
Location:  
System Datum: Mean Sea Level  
Local North: True North

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1222.88	9.34	43.50	1220.12	36.76	34.88	1.50	43.50	50.67	
4	6594.01	9.34	43.50	6520.00	669.27	635.12	0.00	0.00	922.66	H R-25-8-17 PBHL

# **Newfield Exploration Co.**

**Uintah County, UT NAD83 UTC**

**Humpback**

**Humpback R-25-8-17**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**26 February, 2008**



# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Uintah County, UT NAD83 UTC  
**Site:** Humpback  
**Well:** Humpback R-25-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Humpback R-25-8-17  
**TVD Reference:** GL 5019' & RKB 12' @ 5031.00ft (NDSI 2)  
**MD Reference:** GL 5019' & RKB 12' @ 5031.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Project** Uintah County, UT NAD83 UTC

**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** Utah Central Zone  
**System Datum:** Mean Sea Level

**Site** Humpback

**Site Position:** Northing: 7,205,829.64 ft Latitude: 40° 5' 29.840 N  
**From:** Lat/Long Easting: 2,071,750.01 ft Longitude: 109° 57' 29.360 W  
**Position Uncertainty:** 0.00 ft Slot Radius: in Grid Convergence: 0.99 °

**Well** Humpback R-25-8-17, 667' FSL 2014' FWL Sec 25 T8S R17E

**Well Position** +N/-S 0.00 ft Northing: 7,202,887.51 ft Latitude: 40° 5' 0.710 N  
 +E/-W 0.00 ft Easting: 2,072,084.46 ft Longitude: 109° 57' 25.710 W  
**Position Uncertainty** 0.00 ft Wellhead Elevation: ft Ground Level: 5,019.00 ft

**Wellbore** OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2008-02-26	11.69	65.94	52,660

**Design** Plan #1

**Audit Notes:**

**Version:** Phase: PLAN Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	43.50

**Plan Sections**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,222.88	9.34	43.50	1,220.12	36.76	34.88	1.50	1.50	0.00	43.50	
6,594.01	9.34	43.50	6,520.00	669.27	635.12	0.00	0.00	0.00	0.00	H R-25-8-17 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Uintah County, UT NAD83 UTC  
**Site:** Humpback  
**Well:** Humpback R-25-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Humpback R-25-8-17  
**TVD Reference:** GL 5019' & RKB 12' @ 5031.00ft (NDSI 2)  
**MD Reference:** GL 5019' & RKB 12' @ 5031.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.50	43.50	699.99	0.95	0.90	1.31	1.50	1.50	0.00
800.00	3.00	43.50	799.91	3.80	3.60	5.23	1.50	1.50	0.00
900.00	4.50	43.50	899.69	8.54	8.11	11.77	1.50	1.50	0.00
1,000.00	6.00	43.50	999.27	15.18	14.40	20.92	1.50	1.50	0.00
1,100.00	7.50	43.50	1,098.57	23.70	22.49	32.68	1.50	1.50	0.00
1,200.00	9.00	43.50	1,197.54	34.11	32.37	47.03	1.50	1.50	0.00
1,222.88	9.34	43.50	1,220.12	36.76	34.88	50.67	1.50	1.50	0.00
1,300.00	9.34	43.50	1,296.22	45.84	43.50	63.19	0.00	0.00	0.00
1,400.00	9.34	43.50	1,394.89	57.62	54.68	79.43	0.00	0.00	0.00
1,500.00	9.34	43.50	1,493.57	69.39	65.85	95.66	0.00	0.00	0.00
1,600.00	9.34	43.50	1,592.24	81.17	77.03	111.90	0.00	0.00	0.00
1,700.00	9.34	43.50	1,690.91	92.94	88.20	128.13	0.00	0.00	0.00
1,800.00	9.34	43.50	1,789.59	104.72	99.38	144.37	0.00	0.00	0.00
1,900.00	9.34	43.50	1,888.26	116.50	110.55	160.60	0.00	0.00	0.00
2,000.00	9.34	43.50	1,986.93	128.27	121.73	176.84	0.00	0.00	0.00
2,100.00	9.34	43.50	2,085.61	140.05	132.90	193.07	0.00	0.00	0.00
2,200.00	9.34	43.50	2,184.28	151.83	144.08	209.31	0.00	0.00	0.00
2,300.00	9.34	43.50	2,282.95	163.60	155.25	225.54	0.00	0.00	0.00
2,400.00	9.34	43.50	2,381.63	175.38	166.43	241.78	0.00	0.00	0.00
2,500.00	9.34	43.50	2,480.30	187.15	177.60	258.01	0.00	0.00	0.00
2,600.00	9.34	43.50	2,578.97	198.93	188.78	274.24	0.00	0.00	0.00
2,700.00	9.34	43.50	2,677.65	210.71	199.95	290.48	0.00	0.00	0.00
2,800.00	9.34	43.50	2,776.32	222.48	211.13	306.71	0.00	0.00	0.00
2,900.00	9.34	43.50	2,874.99	234.26	222.30	322.95	0.00	0.00	0.00
3,000.00	9.34	43.50	2,973.67	246.04	233.48	339.18	0.00	0.00	0.00
3,100.00	9.34	43.50	3,072.34	257.81	244.65	355.42	0.00	0.00	0.00
3,200.00	9.34	43.50	3,171.01	269.59	255.83	371.65	0.00	0.00	0.00
3,300.00	9.34	43.50	3,269.69	281.36	267.00	387.89	0.00	0.00	0.00
3,400.00	9.34	43.50	3,368.36	293.14	278.18	404.12	0.00	0.00	0.00
3,500.00	9.34	43.50	3,467.03	304.92	289.35	420.36	0.00	0.00	0.00
3,600.00	9.34	43.50	3,565.71	316.69	300.53	436.59	0.00	0.00	0.00
3,700.00	9.34	43.50	3,664.38	328.47	311.71	452.83	0.00	0.00	0.00
3,800.00	9.34	43.50	3,763.05	340.24	322.88	469.06	0.00	0.00	0.00
3,900.00	9.34	43.50	3,861.73	352.02	334.06	485.30	0.00	0.00	0.00
4,000.00	9.34	43.50	3,960.40	363.80	345.23	501.53	0.00	0.00	0.00
4,100.00	9.34	43.50	4,059.07	375.57	356.41	517.77	0.00	0.00	0.00
4,200.00	9.34	43.50	4,157.75	387.35	367.58	534.00	0.00	0.00	0.00
4,300.00	9.34	43.50	4,256.42	399.13	378.76	550.23	0.00	0.00	0.00
4,400.00	9.34	43.50	4,355.09	410.90	389.93	566.47	0.00	0.00	0.00
4,500.00	9.34	43.50	4,453.77	422.68	401.11	582.70	0.00	0.00	0.00
4,600.00	9.34	43.50	4,552.44	434.45	412.28	598.94	0.00	0.00	0.00
4,700.00	9.34	43.50	4,651.11	446.23	423.46	615.17	0.00	0.00	0.00
4,800.00	9.34	43.50	4,749.79	458.01	434.63	631.41	0.00	0.00	0.00
4,900.00	9.34	43.50	4,848.46	469.78	445.81	647.64	0.00	0.00	0.00
5,000.00	9.34	43.50	4,947.13	481.56	456.98	663.88	0.00	0.00	0.00
5,100.00	9.34	43.50	5,045.81	493.34	468.16	680.11	0.00	0.00	0.00
5,200.00	9.34	43.50	5,144.48	505.11	479.33	696.35	0.00	0.00	0.00

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Uintah County, UT NAD83 UTC  
**Site:** Humpback  
**Well:** Humpback R-25-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Humpback R-25-8-17  
**TVD Reference:** GL 5019' & RKB 12' @ 5031.00ft (NDSI 2)  
**MD Reference:** GL 5019' & RKB 12' @ 5031.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	9.34	43.50	5,243.16	516.89	490.51	712.58	0.00	0.00	0.00
5,400.00	9.34	43.50	5,341.83	528.66	501.68	728.82	0.00	0.00	0.00
5,500.00	9.34	43.50	5,440.50	540.44	512.86	745.05	0.00	0.00	0.00
5,600.00	9.34	43.50	5,539.18	552.22	524.03	761.29	0.00	0.00	0.00
5,700.00	9.34	43.50	5,637.85	563.99	535.21	777.52	0.00	0.00	0.00
5,800.00	9.34	43.50	5,736.52	575.77	546.38	793.75	0.00	0.00	0.00
5,900.00	9.34	43.50	5,835.20	587.55	557.56	809.99	0.00	0.00	0.00
6,000.00	9.34	43.50	5,933.87	599.32	568.74	826.22	0.00	0.00	0.00
6,100.00	9.34	43.50	6,032.54	611.10	579.91	842.46	0.00	0.00	0.00
6,200.00	9.34	43.50	6,131.22	622.87	591.09	858.69	0.00	0.00	0.00
6,300.00	9.34	43.50	6,229.89	634.65	602.26	874.93	0.00	0.00	0.00
6,400.00	9.34	43.50	6,328.56	646.43	613.44	891.16	0.00	0.00	0.00
6,500.00	9.34	43.50	6,427.24	658.20	624.61	907.40	0.00	0.00	0.00
6,594.01	9.34	43.50	6,520.00	669.27	635.12	922.66	0.00	0.00	0.00

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
H R-25-8-17 PBHL	0.00	0.00	6,520.00	669.27	635.12	7,203,567.64	2,072,707.93	40° 5' 7.324 N	109° 57' 17.538 W
- plan hits target center									
- Circle (radius 75.00)									

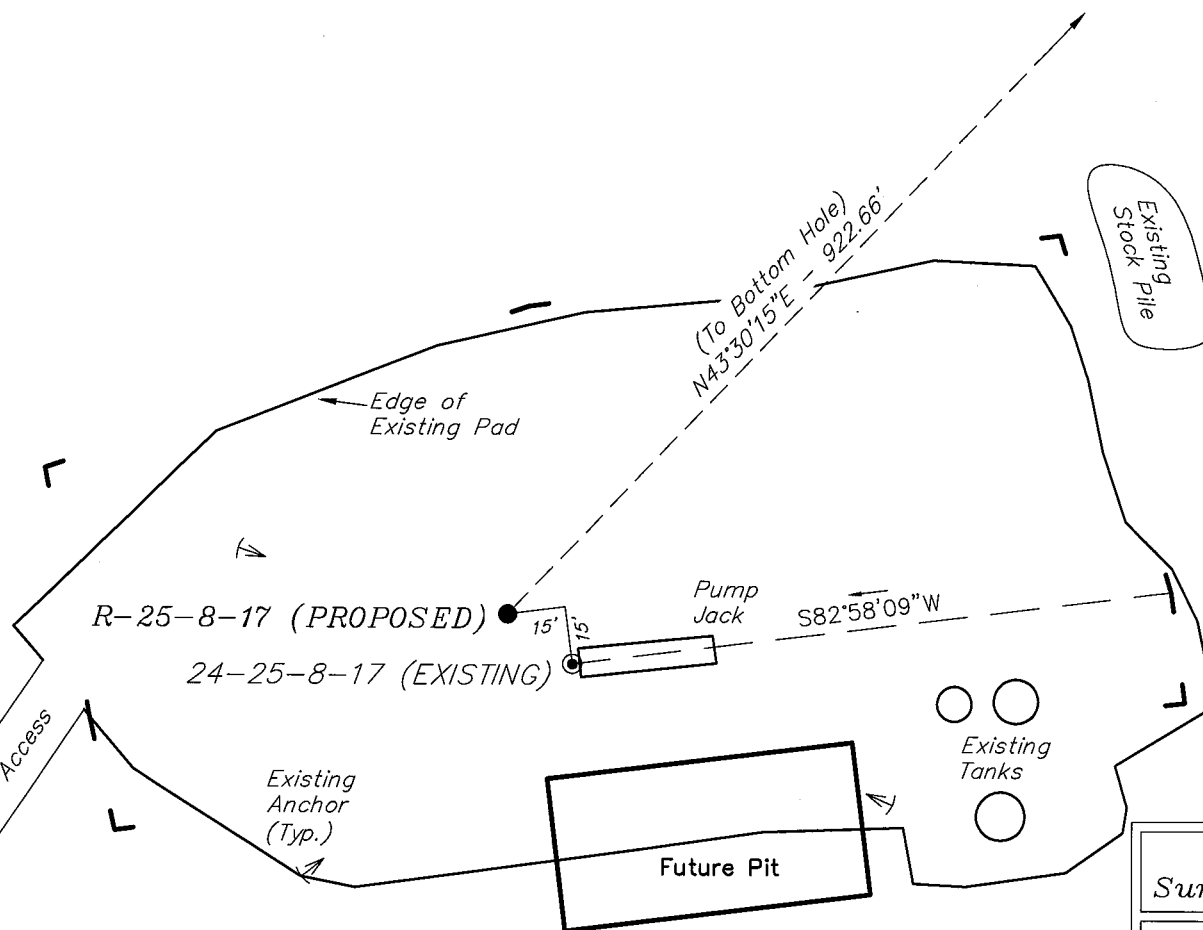
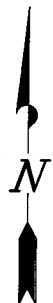
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

HUMPBAC R-25-8-17 (Proposed Well)

HUMPBAC 24-25-8-17 (Existing Well)

Pad Location: SESW Section 25, T8S, R17E, S.L.B.&M.



### TOP HOLE FOOTAGES

R-25-8-17 (PROPOSED)  
667' FSL & 2014' FWL

### BOTTOM HOLE FOOTAGES

R-25-8-17 (PROPOSED)  
1335' FSL & 2650' FWL

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
R-25-8-17	669'	635'

### Note:

Bearings are based on  
GLO Information.

SURVEYED BY: T.H.	DATE SURVEYED: 01-08-08
DRAWN BY: F.T.M.	DATE DRAWN: 01-21-08
SCALE: 1" = 50'	REVISED: L.C.S. 02-05-08

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
R-25-8-17	40° 05' 00.71"	109° 57' 25.71"
24-25-8-17	40° 05' 00.59"	109° 57' 25.50"

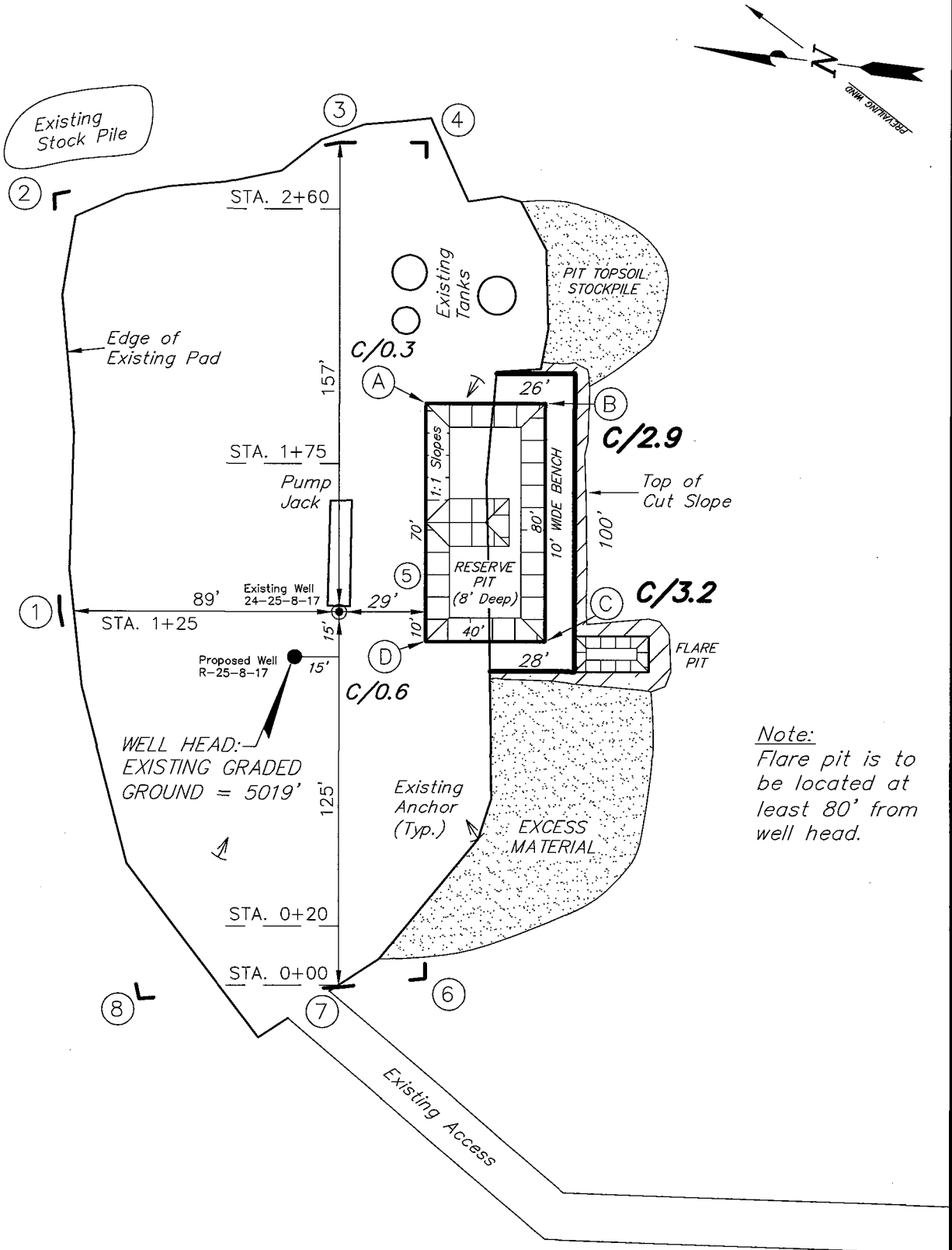
**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

HUMPBACK R-25-8-17 (Proposed Well)

HUMPBACK 24-25-8-17 (Existing Well)

Pad Location: SESW Section 25, T8S, R17E, S.L.B.&M.



SURVEYED BY: T.H.	DATE SURVEYED: 01-08-08
DRAWN BY: F.T.M.	DATE DRAWN: 01-21-08
SCALE: 1" = 50'	REVISED:

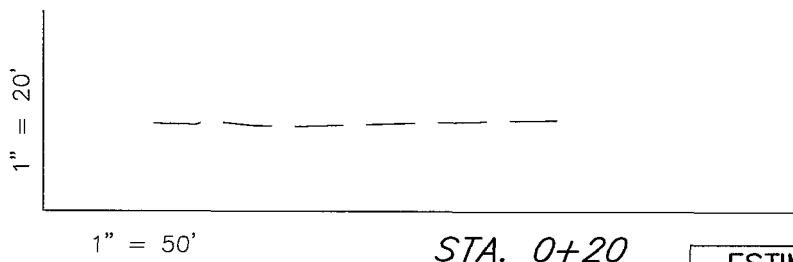
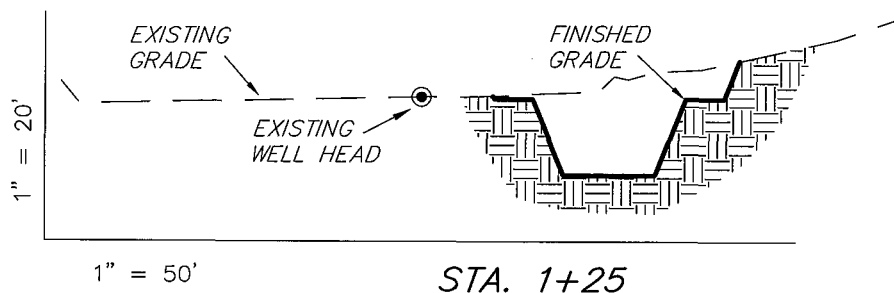
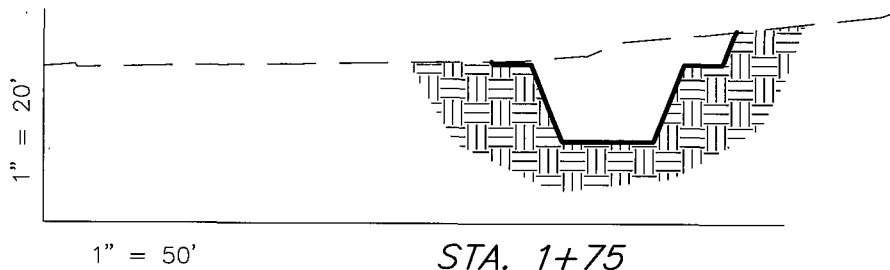
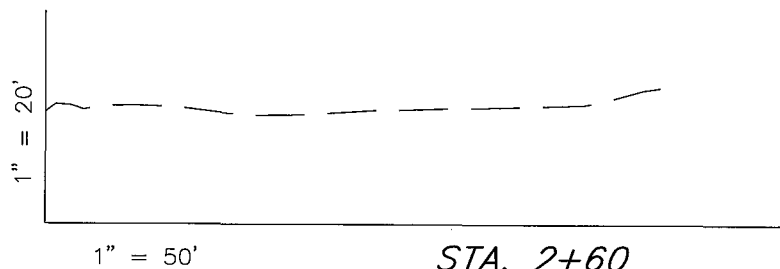
**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

HUMPBAC R-25-8-17 (Proposed Well)

HUMPBAC 24-25-8-17 (Existing Well)



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	500	0	Topsoil is not included in Pad Cut	500
PIT	640	0		640
TOTALS	1,140	0	140	1,140

SURVEYED BY: T.H. DATE SURVEYED: 01-08-08  
DRAWN BY: F.T.M. DATE DRAWN: 01-21-08  
SCALE: 1" = 50' REVISED:

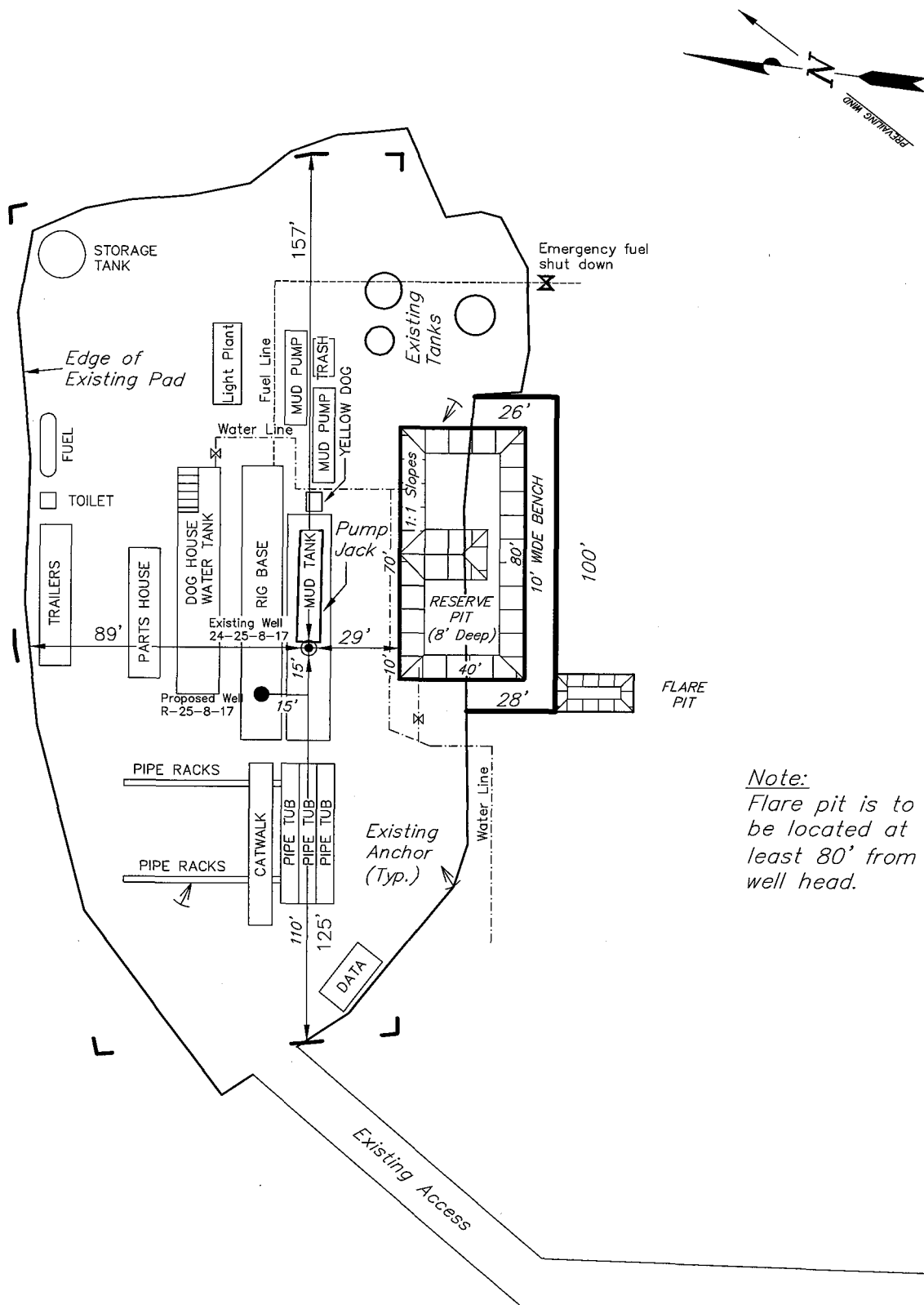
**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

HUMPBACK R-25-8-17 (Proposed Well)

HUMPBACK 24-25-8-17 (Existing Well)



Note:  
Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.H.	DATE SURVEYED: 01-08-08
DRAWN BY: F.T.M.	DATE DRAWN: 01-21-08
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# Newfield Production Company Proposed Site Facility Diagram

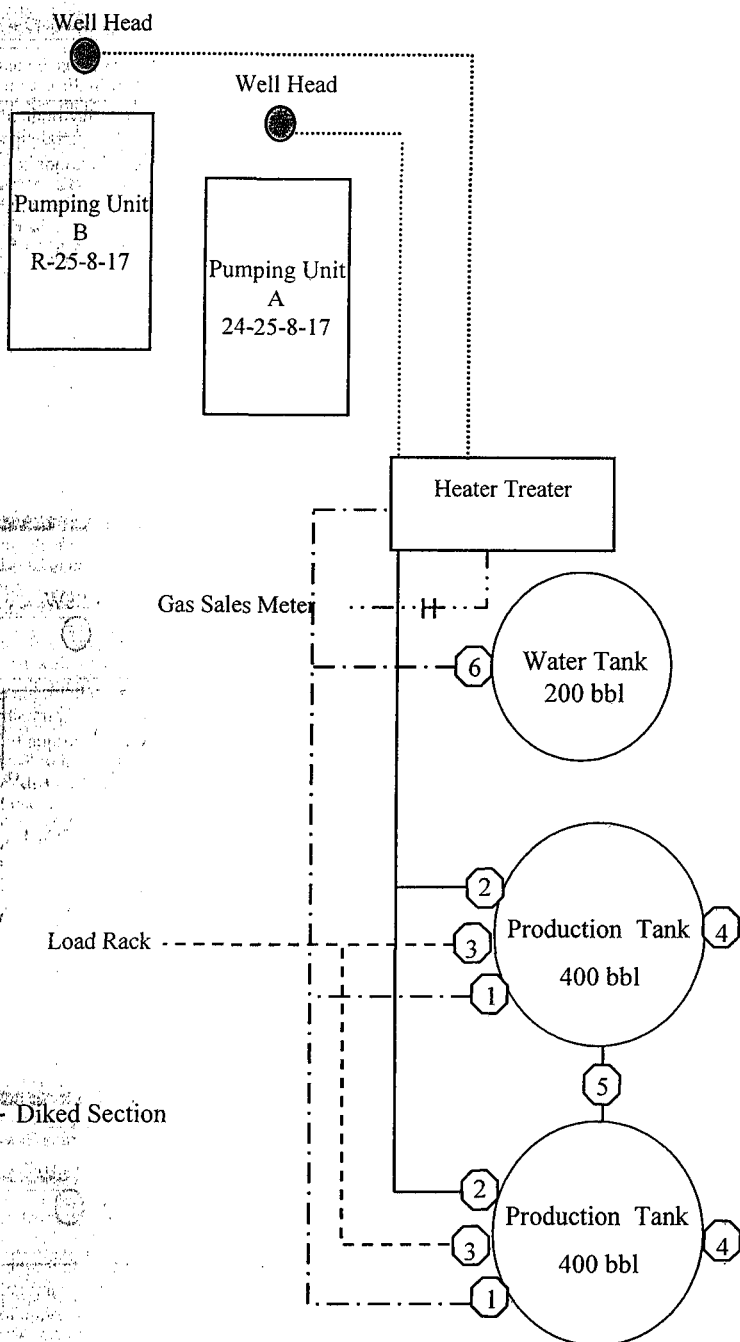
Humpback Federal R-25-8-17

From the 24-25-8-17 Location

SE/SW Sec. 25 T8S, R17E

Uintah County, Utah

UTU-67845



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

## Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

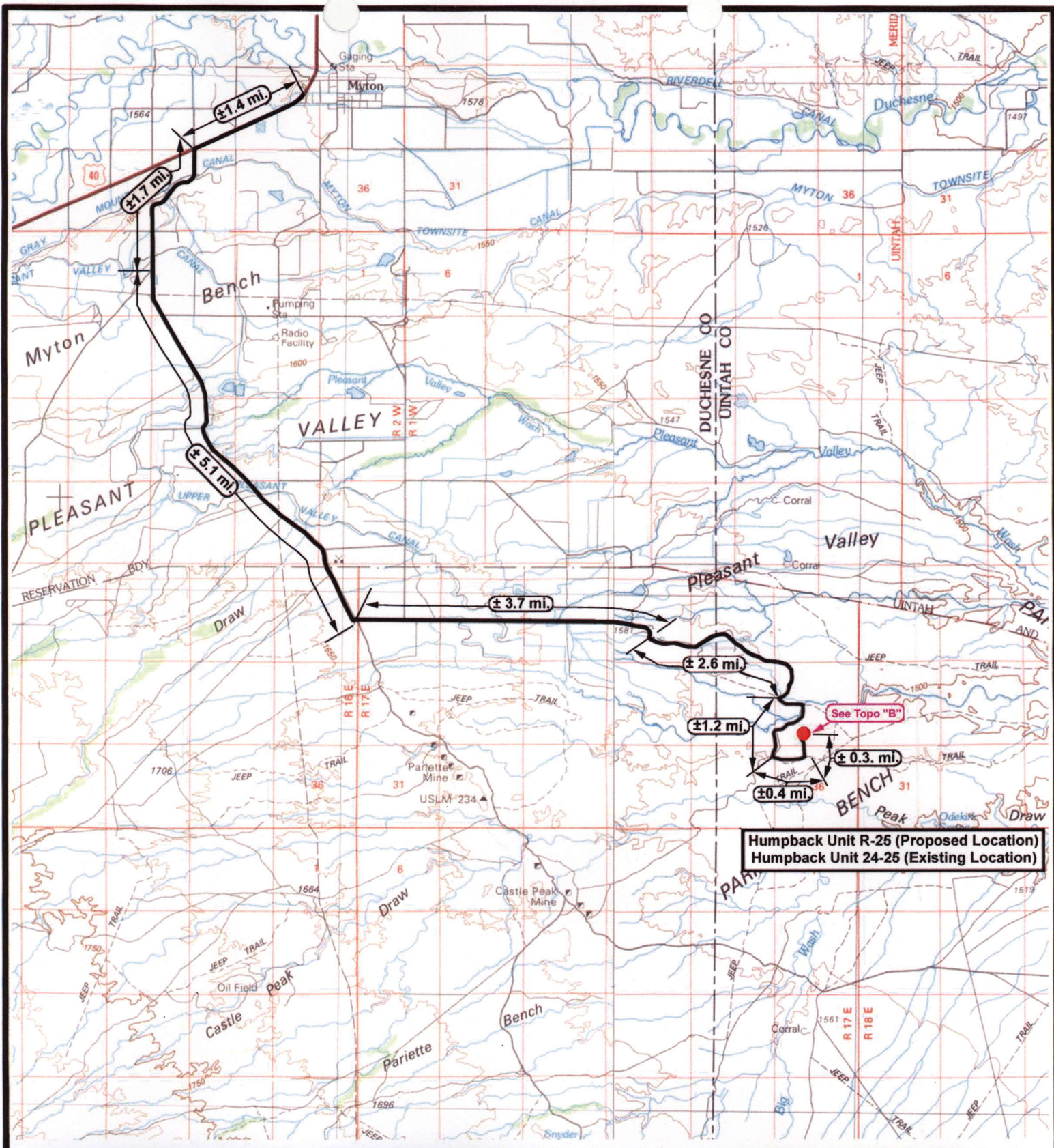
## Draining Phase:

- 1) Valves 1 and 6 open

## Legend

Emulsion Line	.....
Load Rack	-----
Water Line	- . - . - .
Gas Sales	.....
Oil Line	—————





Humpback Unit R-25 (Proposed Location)  
Humpback Unit 24-25 (Existing Location)

**NEWFIELD**  
Exploration Company

**Humpback Unit R-25-8-17 (Proposed Unit)**  
**Humpback Unit 24-25-8-17 (Existing Location)**  
**Pad Location SESW SEC. 25, T8S, R17E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1:100,000  
DRAWN BY: nc  
DATE: 02-11-2008

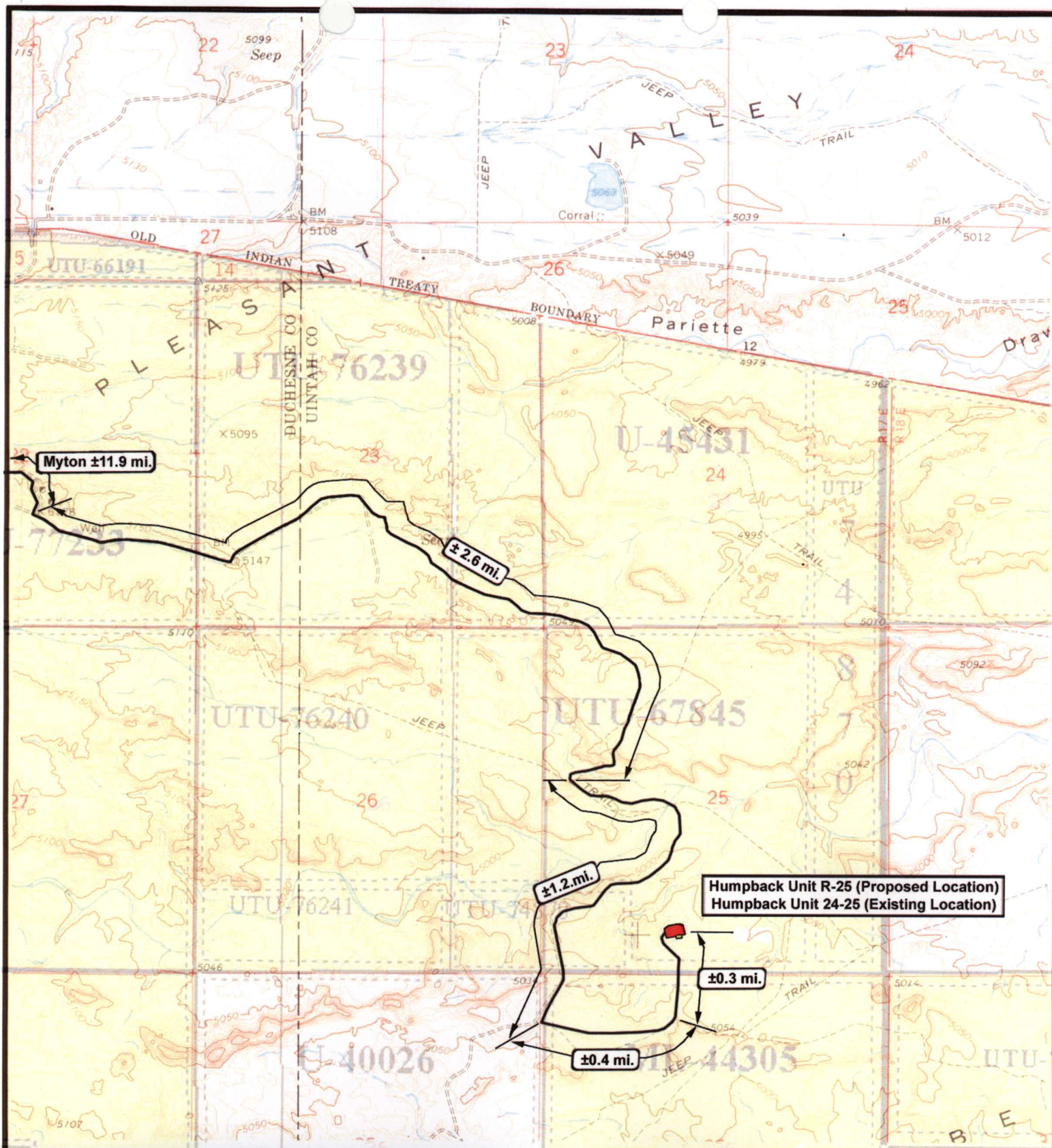
**Legend**

Existing Road

TOPOGRAPHIC MAP

**"A"**





**NEWFIELD**  
Exploration Company

**Humpback Unit R-25-8-17 (Proposed Unit)**  
**Humpback Unit 24-25-8-17 (Existing Location)**  
**Pad Location SESW SEC. 25, T8S, R17E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1"=2,000'  
DRAWN BY: nc  
DATE: 01-11-2008

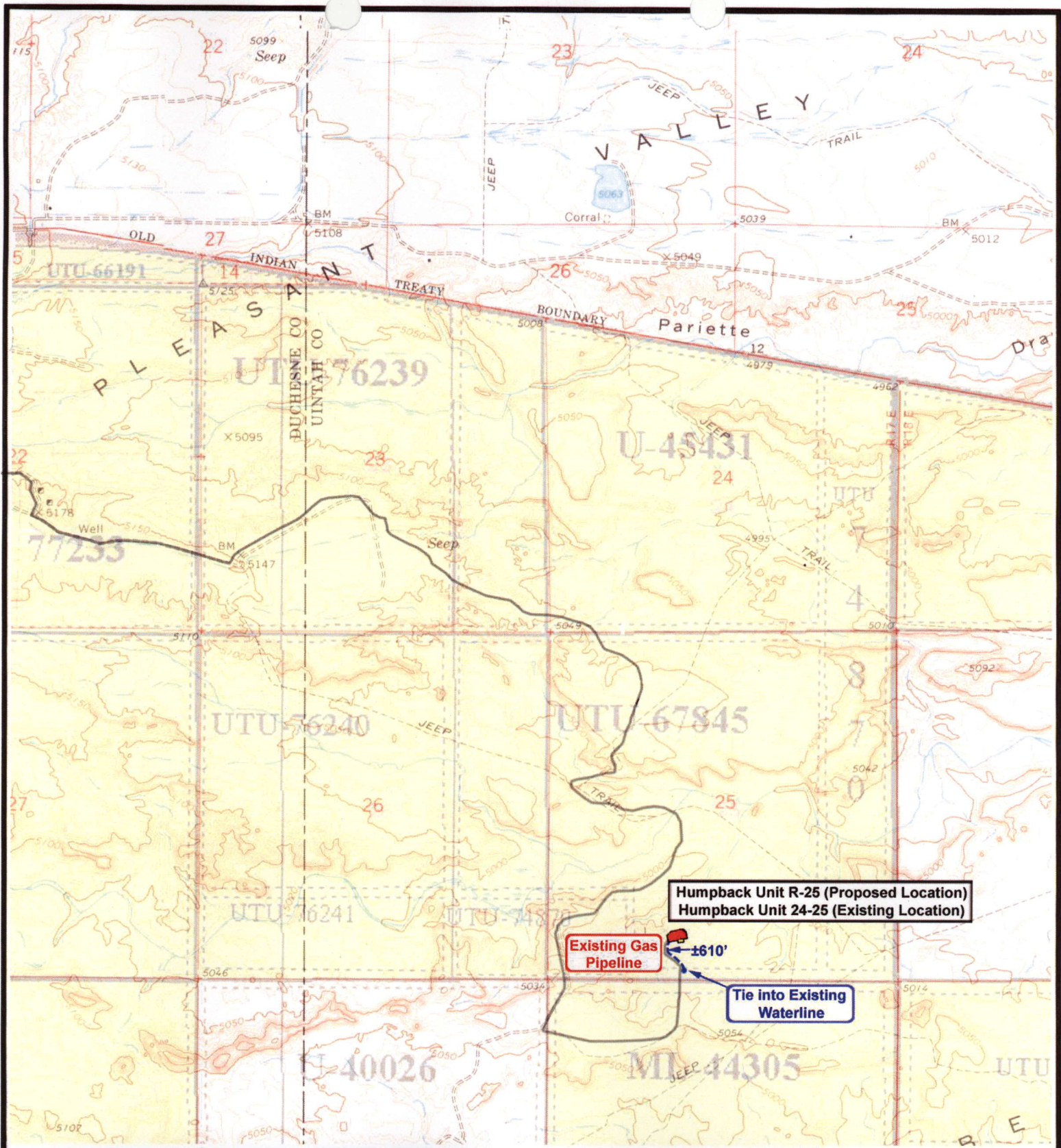
**Legend**


Existing Road

TOPOGRAPHIC MAP

**"B"**







**NEWFIELD**  
Exploration Company

---

**Humpback Unit R-25-8-17 (Proposed Unit)**  
**Humpback Unit 24-25-8-17 (Existing Location)**  
**Pad Location SESW SEC. 25, T8S, R17E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

---

**SCALE: 1"=2,000'**  
**DRAWN BY: nc**  
**DATE: 02-11-2008**

**Legend**

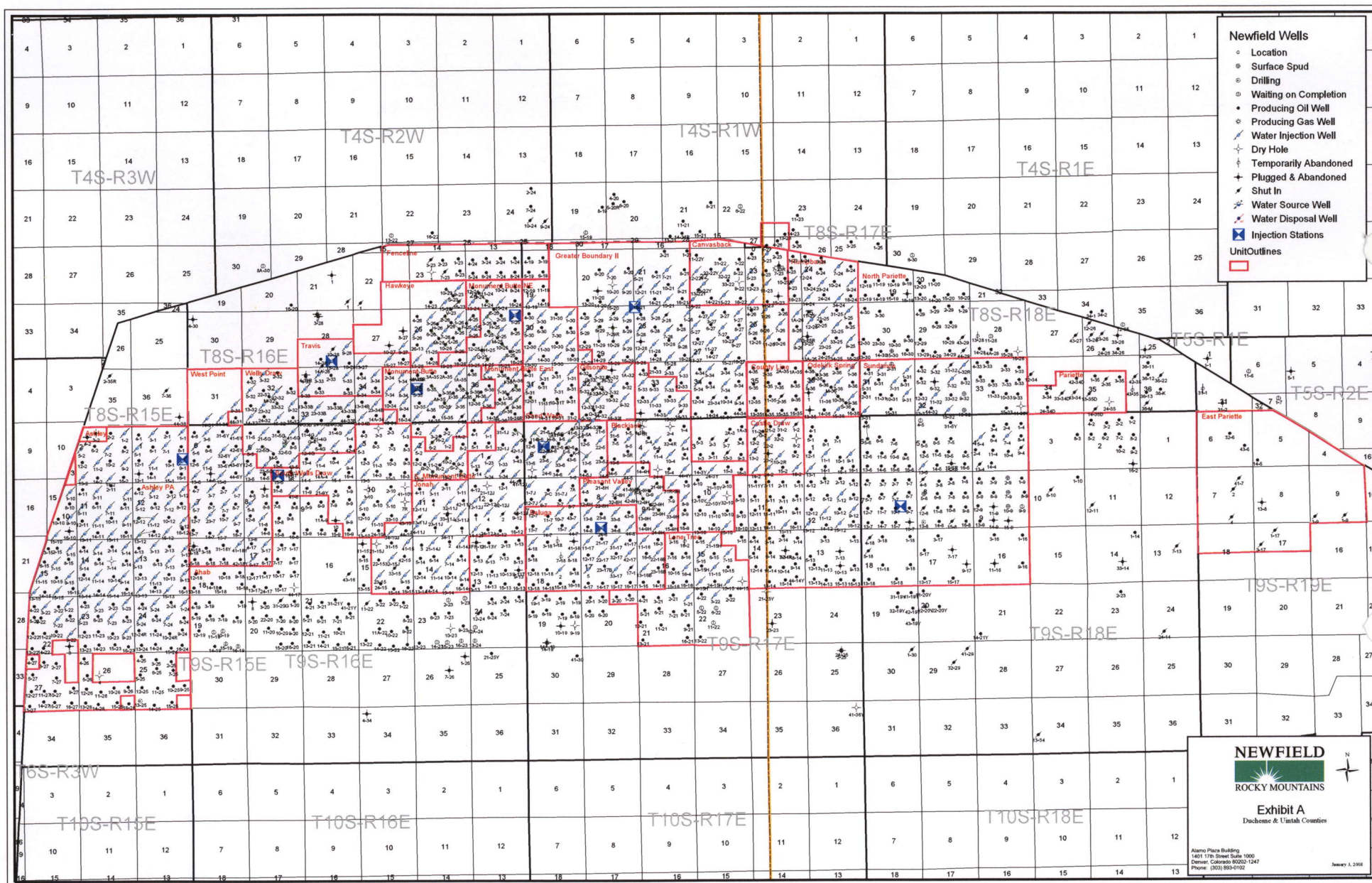
— Roads  
 - - - Proposed Water Line

---

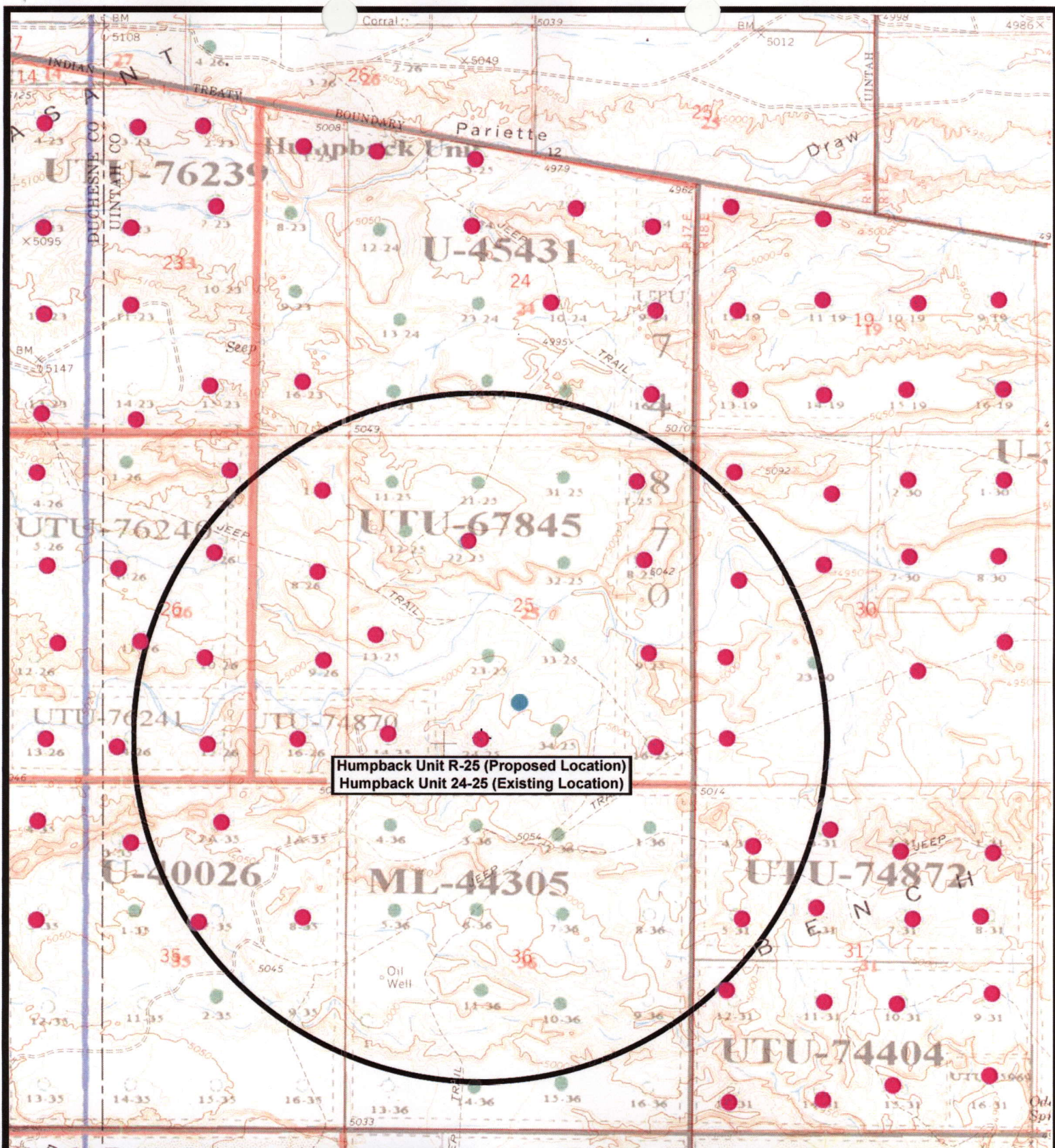
**TOPOGRAPHIC MAP**

**"C"**









Humpback Unit R-25 (Proposed Location)  
Humpback Unit 24-25 (Existing Location)

**NEWFIELD**  
Exploration Company

**Humpback Unit R-25-8-17 (Proposed Unit)**  
**Humpback Unit 24-25-8-17 (Existing Location)**  
**Pad Location SESW SEC. 25, T8S, R17E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

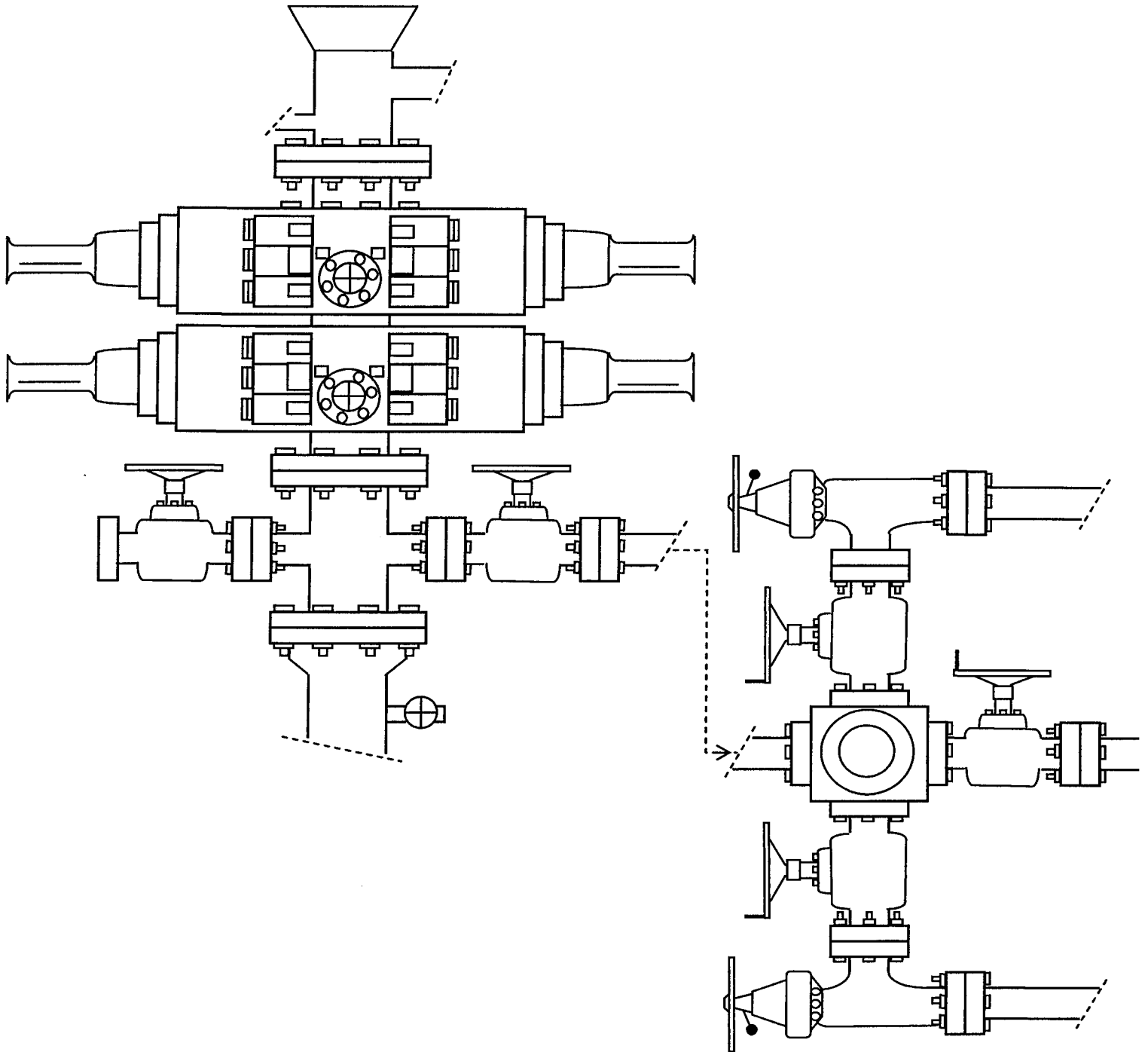
SCALE: 1" = 2,000'  
DRAWN BY: nc  
DATE: 02-11-2008

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**



**EXHIBIT C**

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/18/2008

API NO. ASSIGNED: 43-047-39973

WELL NAME: HUMPBAC FED R-25-8-17

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESW 25 080S 170E

SURFACE: 0667 FSL 2014 FWL

BOTTOM: 1335 FSL 2650 FWL

COUNTY: UINTAH

LATITUDE: 40.08347 LONGITUDE: -109.9564

UTM SURF EASTINGS: 588974 NORTHINGS: 4437333

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY:        /        /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-67845

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

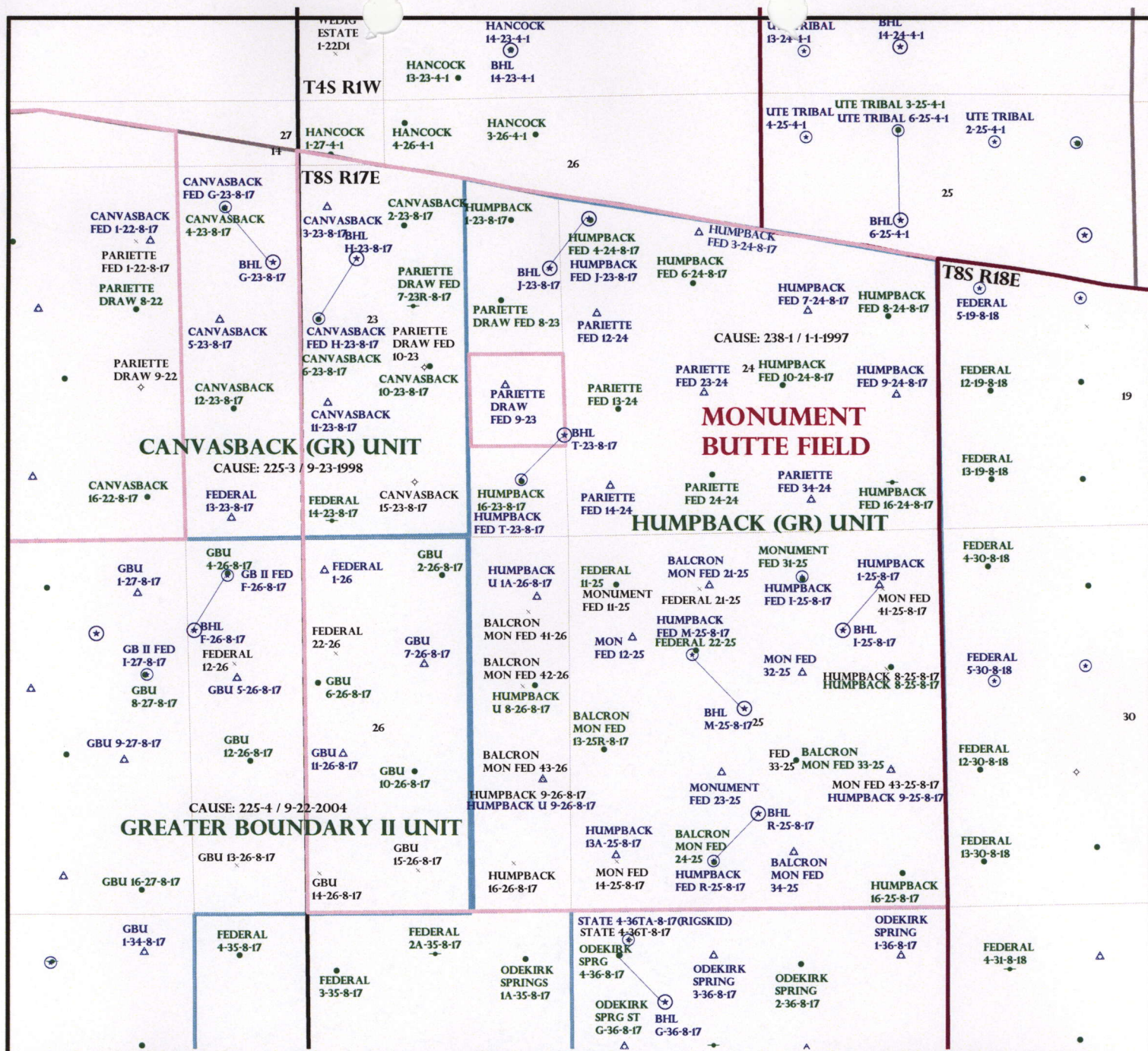
☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
                    (No. WYB000493 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
                    (No. 43-10136 )  
☒ RDCC Review (Y/N)  
                    (Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_\_\_ R649-2-3.  
Unit: HUMPBAC (GRRV)  
\_\_\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_\_\_ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 238-1  
Eff Date: 1-1-1997  
Siting: Does not Suspend General Siting  
☒ R649-3-11. Directional Drill

COMMENTS: See Separate File

STIPULATIONS: Approved



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 23,24,25 T.8S R. 17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 238-1 / 1-1-1997

**Field Status**

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**Unit Status**

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 26-MARCH-2008





March 24, 2008

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
PO Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**Humpback Federal R-25-8-17**  
Humpback Unit  
UTU-76189X  
Surface Hole: T8S R17E, Section 25: SESW  
667' FSL 2014' FWL  
Bottom Hole: T8S R17E, Section 25  
1335' FSL 2650' FWL  
Uintah County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated March 14, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and target location of this well are both within the boundaries of the Humpback Federal Unit UTU-76189X. Newfield certifies that it is the Humpback Unit Operator and all lands within 460 feet of the entire directional well bore are within the Humpback Unit.

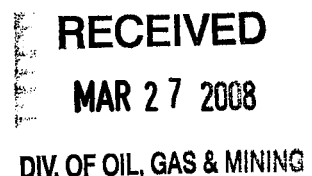
NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland  
Land Associate



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-67845

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Humpback Unit

8. Lease Name and Well No.

Humpback Federal R-25-8-17

9. API Well No.

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 25, T8S R17E

12. County or Parish

Uintah

13. State

UT

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface SE/SW 667' FSL 2014' FWL

At proposed prod. zone 1335' FSL 2650' FWL

14. Distance in miles and direction from nearest town or post office\*

Approximatley 16.4 miles southeast of Myton, Utah

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)

Approx. 1310' t/ise, 1335' t/unit

16. No. of Acres in lease

560.00

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 1302'

19. Proposed Depth

6520'

20. BLM/BIA Bond No. on file

WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5019' GL

22. Approximate date work will start\*

2 nd Quarter 2008

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the  
authorized officer.

25. Signature

Title

Regulatory Specialist

Name (Printed/Typed)

Mandie Crozier

Date

3/14/08

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct  
operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

MAR 27 2008

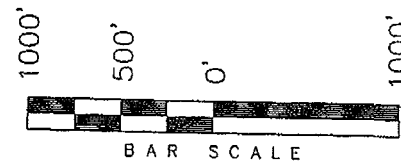
DIV. OF OIL, GAS & MINING

*T8S, R17E, S.L.B.&M.*

N89°58'W - 79.90 (G.L.O.)

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, HUMPBACK R-25-8-17,  
LOCATED AS SHOWN IN THE SE 1/4 SW  
1/4 OF SECTION 25, T8S, R17E,  
S.L.B.&M. UINTAH COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W

REGISTERED LAND SURVEY

REGISTRATION No. 182758

STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

(435) 781-2501

DATE SURVEYED:

01-08-08

DATE DRAWN:

01-21-08


REVISÉD:

02-05-08 L.C.S.

SURVEYED BY: T.H.

DRAWN BY: F.T.M.

SCALE: 1" = 1000'

 = SECTION CORNERS LOCATED

BASIS OF ELEV;

U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

HUMBACK R-25-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 05' 00.71"  
LONGITUDE = 109° 57' 25.71"

(Surface Location) NAD 83

LATITUDE = 40° 05' 00.71"

LONGITUDE = 109° 57' 25.71"

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

March 31, 2008

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Humpback Unit,  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Humpback Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
47 43-013-33970	Humpback Fed T-23-8-17	Sec 23 T08S R17E 0800 FSL 0660 FEL BHL Sec 23 T08S R17E 1435 FSL 0055 FEL
47 43-013-33974	Humpback Fed J-23-8-17	Sec 24 T08S R17E 0327 FNL 0433 FWL BHL Sec 23 T08S R17E 1031 FNL 0115 FEL
47 43-013-33971	Humpback Fed I-25-8-17	Sec 25 T08S R17E 0607 FNL 2002 FEL BHL Sec 25 T08S R17E 1370 FNL 1435 FEL
47 43-013-33972	Humpback Fed M-25-8-17	Sec 25 T08S R17E 1692 FNL 1734 FWL BHL Sec 25 T08S R17E 2464 FNL 2466 FWL
47 43-013-33973	Humpback Fed R-25-8-17	Sec 25 T08S R17E 0667 FSL 2014 FWL BHL Sec 25 T08S R17E 1335 FSL 2650 FWL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Humpback Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:3-31-08



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

March 31, 2008

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Humpback Federal R-25-8-17 Well, Surface Location 667' FSL, 2014' FWL, SE SW,  
Sec. 25, T. 8 South, R. 17 East, Bottom Location 1335' FSL, 2650' FWL, SE SW,  
Sec. 25, T. 8 South, R. 17 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39973.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Office

Operator: Newfield Production Company  
Well Name & Number Humpback Federal R-25-8-17  
API Number: 43-047-39973  
Lease: UTU-67845

Surface Location: SE SW      Sec. 25      T. 8 South      R. 17 East  
Bottom Location: SE SW      Sec. 25      T. 8 South      R. 17 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281      (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

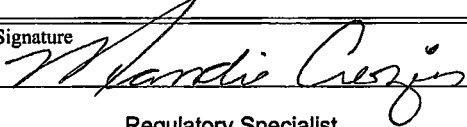
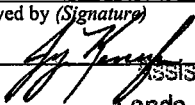
5. Lease Serial No. UTU-67845
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA Agreement, Name and No. Humpback Unit
8. Lease Name and Well No. Humpback Federal R-25-8-17
9. API Well No. 43 047 3973
10. Field and Pool, or Exploratory Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 25, T8S R17E
12. County or Parish Uintah
13. State UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		
2. Name of Operator Newfield Production Company		
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/SW 667' FSL 2014' FWL At proposed prod. zone 1335' FSL 2650' FWL <b>SUSE</b>		
14. Distance in miles and direction from nearest town or post office* Approximatley 16.4 miles southeast of Myton, Utah		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1310' f/iso, 1335' f/unit	16. No. of Acres in lease 560.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1302'	19. Proposed Depth 6520'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5019' GL	22. Approximate date work will start* 2 nd Quarter 2008	23. Estimated duration Approximately seven (7) days from apud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 3/14/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) STEVEN KENCALA	Date 5-15-2008
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

MAY 19 2008

DEPT. OF OIL, GAS & MINING

NOS 2.19.08  
08PP0461A



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

**170 South 500 East**

**VERNAL, UT 84078**

**(435) 781-4400**



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company: Newfield Production Company  
Well No: Humpback Federal R-25-8-17  
API No: 43-047-39973**

**Location: SESW Sec 25, T8S, R17E  
Lease No: UTU-67845  
Agreement: Humpback Unit**

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:		(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7482
NRS/Enviro Scientist:		(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days



**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Specific Surface COAs**

**STIPULATIONS:**

Stipulations (field review and RMP): None.

Lease Notices from the RMP:

- The lessee/operator is given notice the area has been identified as containing Golden Eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden Eagle and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- The lessee/operator is given notice the area has been identified as containing Ferruginous Hawk habitat. Modifications may be required in the Surface Use Plan to protect the Ferruginous Hawk and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

**Follow-up Actions and/or Recommendations:**

**Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of this report (onsite) should require additional surveys and clearances.**

**CONDITIONS OF APPROVAL:**

- **Surveys for the Threatened *Sclerocactus* spp. will be conducted prior to ground disturbing activities (no installation of waterlines until surveys completed). The results of these surveys will be made available to the A.O. prior to approval of new surface disturbance.**
- **No surface disturbance outside of APD proposal is authorized. If other disturbance is necessary, authorization will be proposed in a sundry notice (Form 3160-5) to BLM Authorized Officer. *Sclerocactus* spp. surveys may be required prior to new surface disturbing activities including pipelines (surface and buried).**
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such

equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, a detailed Interim and Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. If Reclamation Plan is acceptable, the AO will provide written approval or concurrence within 30 calendar days of receipt.

#### **Interim Reclamation:**

- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be **seeded using a rangeland drill**. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 1<sup>st</sup> until snow or ground is frozen) with the following seed mix:
  -

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	1/4 - 1/2"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	1/2"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	1/2"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	1/2"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	1/2"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

#### Final reclamation:

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.

- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- Logging: Run Gamma Ray from TD to surface

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) shall the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Shall the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

## DIVISION OF OIL, GAS AND MINING

### ***SPUDDING INFORMATION***

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: HUMPBAC FED R-25-8-17

Api No: 43-047-39973 Lease Type: FEDERAL

Section 25 Township 08S Range 17E County UINTAH

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 08/18/08

Time 9:30 AM

How DRY

***Drilling will Commence:*** \_\_\_\_\_

Reported by SEAN STEVENS

Telephone # (435) 823-1162

Date 08/18/08 Signed CHD



RECEIVED

AUG 20 2008

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

DIV. OF OIL, GAS &amp; MINING

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QS	SC	TP	RS			
WELL 1 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QS	SC	TP	RS	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	12053 ✓	4304739973	HUMPSBACK FEDERAL R-25-8-17	SESW	25	8S	17E	UINTAH	8/18/2008	8/25/08
GRRV BHL = SESW											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QS	SC	TP	RS	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	12418 ✓	4301333897	WEST POINT FEDERAL I-6-9-16	NWNE	6	9S	16E	DUCHESNE	8/18/2008	8/25/08
GRRV BHL = NWNE											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QS	SC	TP	RS	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	12053 ✓	4304740018	HUMPSBACK FEDERAL S-25-8-17	SESE NWNW	25	8S	17E	UINTAH	8/19/2008	8/25/08
WELL 5 COMMENTS: GRRV BHL = SWSE											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QS	SC	TP	RS	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	12391 ✓	4301333900	GREATER BOUNDARY FEDERAL F-26-8-17	NWNW	26	8S	17E	DUCHESNE	8/14/2008	8/25/08
WELL 5 COMMENTS: GRRV BHL = Sec 27 NENE											

ACTION CODES (See instructions on back of form)

- A - new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Signature

Jenri Park

Production Clerk

08/20/08

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

667 FSL 2014 FWL

SESW Section 25 T8S R17E

5. Lease Serial No.

USA UTU-67845

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

HUMBACK UNIT

8. Well Name and No.

HUMBACK FEDERAL R-25-8-17

9. API Well No.

4304739973

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

UINTAH, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 8/18/08 MIRU NDSI NS #1. Spud well @ 9:30 AM. Drill 335' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 336.08 KB. On 8/24/08 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Ryan Crum

Signature

Title

Drilling Foreman

Date

08/24/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

SEP 02 2008

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 336.08

LAST CASING 8 5/8" SET # 325.17  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING  
 DATUM TO BRADENHEAD FLANGE  
 TD DRILLER 335' LOGGER  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Humpback federal R-25-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 24

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 39.80'					
		WHI - 92 csg head			8rd	A	0.95
8	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	324.23
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			
TOTAL LENGTH OF STRING		326.08	8	LESS CUT OFF PIECE			
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			
TOTAL		324.23	8				
TOTAL CSG. DEL. (W/O THRDS)		324.23	8	} COMPARE			
TIMING		1ST STAGE					
BEGIN RUN CSG.		Spud 8/18/2008	9:30 AM	GOOD CIRC THRU JOB yes			
CSG. IN HOLE		8/18/2008	1:30 PM	Bbls CMT CIRC TO SURFACE 5			
BEGIN CIRC		8/24/2008	9:26 AM	RECIPROCATED PIPE FOR N/A			
BEGIN PUMP CMT		8/24/2008	9:35 AM				
BEGIN DSPL. CMT		8/24/2008	9:54 AM	BUMPED PLUG TO 130 PSI			
PLUG DOWN		8/24/2008	9:53 AM				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>	
STAGE	# SX	CEMENT TYPE & ADDITIVES	
<b>1</b>	<b>160</b>	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield	
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING	
Centralizers - Middle first, top second & third for 3			

COMPANY REPRESENTATIVE Ryan Crum

DATE 8/24/2008

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

667 FSL 2014 FWL

SESW Section 25 T8S R17E

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

5. Lease Serial No.

USA UTU-67845

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

HUMPBAC UNIT

8. Well Name and No.

HUMPBAC FEDERAL R-25-8-17

9. API Well No.

4304739973

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

UINTAH, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 10/5/08 MIRU Patterson Rig # 52. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 295'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6475'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 167 jt's of 5.5 J-55, 15.5# csgn. Set @ 6485.37' / KB. Cement with 350 sks cement mixed @ 11.0 ppg & 3.43 yld. The 475 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 20 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 98,000 #'s tension. Release rig @ 7:00 pm 10/12/08.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Don Bastian

Title

Drilling Foreman

Signature

Date

10/12/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**OCT 16 2008**

**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET @ 6485.36

LAST CASING: 8-5/8" SET @           
 DATUM (KB) 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE 12  
 DRILLER TD 6475 LOGGER TD 6488'  
 HOLE SIZE 7-7/8" TOP FLOAT COLLAR @ 6464.00  
 TOP SHORT JT @ #N/A

OPERATOR: Newfield Production Company  
 WELL: Humpback Federal R-25-8-17  
 FIELD/PROSPECT: Monument Butte  
 CONTRACTOR & RIG #: Patterson # 52

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1		Landing Jt	15.5#	J-55	8rd	A	14
166	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	6452.00
1	5 1/2"	FLOAT COLLAR	-	-	-	A	0.6
1	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	20.11
1	5 1/2"	GUIDE SHOE					0.65

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	6487.36	167
LESS NON CSG. ITEMS	15.25	-
PLUS FULL JTS. LEFT OUT	196.39	5
TOTAL	6668.5	172
TOTAL CSG. DEL. (W/O THRS)	6668.50	172

TOTAL LENGTH OF STRING

(-) LANDING JT

(-) AMOUNT CUTOFF

(+) KB ELEVATION

CASING SET DEPTH

COMPARE (SHOULD BE EQUAL)

6487.36

14

0

12

**6485.36**

CEMENT DATA		TIME	DATE
BEGIN RUN CSG.		4:35 AM	10/12/2008
CSG. IN HOLE		9:30 AM	10/12/2008
BEGIN CIRC		10:00 AM	10/12/2008
BEGIN PUMP CMT		11:51 AM	10/12/2008
BEGIN DSPL. CMT		1:10 PM	10/12/2008
PLUG DOWN		2:40 PM	10/12/2008

GOOD CIRC THRU JOB: Yes

Bbls CMT CIRC TO SURFACE: 20

RECIPROCATED PIPE: No

DID BACK PRES. VALVE HOLD ? Yes

BUMPED PLUG TO: 2500 PSI

## CEMENT USED

CEMENT USED		
CEMENT COMPANY:		BJ
STAGE	# SX	CEMENT TYPE & ADDITIVES
350		Premium Lite II cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5 lbs/sack Cello
		Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate
		+ 5 lbs/sack CSE-2 + 204.7% Fresh Water
475		(50:50) Poz (Fly Ash): Class G Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5%
		bwoc EC-1 + 0.25 lbs/sack Cello Flake + 0.002 gps FP-6L + 2% bwoc Bentonite + 0.3% bwoc Sodium
		Metasilicate + 54.7% Fresh Water
CENTRALIZER & SCRATCHER PLACEMENT (SHOW MAKE & SPACING)		
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.		

COMPANY REPRESENTATIVE Don Bastian

DATE 10/12/2008

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-67845

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:  
OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 667 FSL 2014 FWL COUNTY: Uintah

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESW, 25, T8S, R17E

STATE: UT

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
HUMPBAC UNIT

8. WELL NAME and NUMBER:  
HUMPBAC FEDERAL R-25-8-17

9. API NUMBER:  
4304739973

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  11/18/2008			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 11/07/08, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE

DATE 11/18/2008

(This space for State use only)

RECEIVED  
NOV 25 2008

DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**HUMPBAC R-25-8-17****8/1/2008 To 12/30/2008****10/25/2008 Day: 1****Completion**

Rigless on 10/24/2008 - Instal 5K frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6139' & cement top @ 68'. Couldn't get guns below 6146'. 154 bbls EWTR. SIFN.

**10/31/2008 Day: 2****Completion**

NC #1 on 10/30/2008 - 6:30AM MIRU NC#1, N/U Wsh HD, P/U & RIH W/-4 3/4" Bit, Bit Sub, 200 Jts Tbg To Cement @ 6154', R/U Nabors Pwr Swvl, R/U R/pmp & Drill Out To PBTD @ 6463', Curc Well Clean W/-140 Bbls Fresh Wtr, R/D Swvl, POOH W/-1 Jt Tbg, EOB @ 6431', SWI, 7:00PM C/SDFN.

**11/1/2008 Day: 3****Completion**

NC #1 on 10/31/2008 - 6:30AM OWU, POOH W/-209 Jts Tbg, Bit Sub & Bit. R/U Wire Line To Perf Stage #1 Zone CP5 @ 6278'-6286' W/-4 SPF. R/D Wire Line Aftr Perf. SWI, 3:00PM C/SDFD.

**11/4/2008 Day: 4****Completion**

NC #1 on 11/3/2008 - Day 4. Stage #1, CP5 sands. RU BJ Services. 0 psi on well. Frac CP5 w/ 26,656#'s of 20/40 sand in 487 bbls of Lightning 17 fluid. Broke @ 2447 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2043 psi @ ave rate of 22.8 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2085 psi. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 16' perf gun. Set plug @ 6220'. Perforate CP4 sds @ 6170-86' w/ 3-1/8" Slick Guns w/ 4 spf for total of 64 shots. BJ Pump truck broke down (Packing, Valves). Leave pressure on well. 641 BWTR.

**11/5/2008 Day: 5****Completion**

NC #1 on 11/4/2008 - Day 5a. Stage #2, CP4 sands. RU BJ Services. 1585 psi on well. Frac CP4 w/ 45,902#'s of 20/40 sand in 502 bbls of Lightning 17 fluid. Broke @ 3691 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1709 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 1604 psi. Leave pressure on well. 1143 BWTR See Day 5b. Day 5b. Stage #3, CP1 & 2 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 14' & 8' perf gun. Set plug @ 6110'. Perforate CP2 sds @ 6046-60', CP1 sds @ 5984-92' w/ 3-1/8" Slick Guns w/ 4 spf for total of 88 shots. RU BJ Services. 1220 psi on well. Frac CP1 & CP2 w/ 60,701#'s of 20/40 sand in 543 bbls of Lightning 17 fluid. Broke @ 4079 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1695 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1866 psi. Leave pressure on well. 1686 BWTR See Day 5c. Day 5c. Stage #4, B1 & 2 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 8' & 10' perf gun. Set plug @ 5520'. Perforate B2 sds @ 5420-28', B1 sds @ 5394-5404' w/ 3-1/8" Slick Guns

w/ 4 spf for total of 72 shots. RU BJ Services. 1310 psi on well. Frac B1 & B2 w/ 43,288#'s of 20/40 sand in 448 bbls of Lightning 17 fluid. Broke @ 3001 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1574 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1839 psi. Leave pressure on well. 2134 BWTR See Day 5d. Day 5d. Stage #5, D2 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 6' perf gun. Set plug @ 5270'. Perforate D2 sds @ 5166-72' w/ 3-1/8" Slick Guns w/ 4 spf for total of 24 shots. RU BJ Services. 1248 psi on well. Frac D2 w/ 24,048#'s of 20/40 sand in 363 bbls of Lightning 17 fluid. Broke @ 2675 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1858 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 1766 psi. Leave pressure on well. 2497 BWTR See Day 5e. Day 5e. Stage #6, DS3 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 5110'. Perforate DS3 sds @ 5052-60' w/ 3-1/8" Slick Guns w/ 4 spf for total of 32 shots. RU BJ Services. 1270 psi on well. Frac DS3 w/ 30,157#'s of 20/40 sand in 405 bbls of Lightning 17 fluid. Broke @ 4249 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2407 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #7. ISIP 2326 psi. Leave pressure on well. 2902 BWTR See Day 5f. Day 5f. Stage #7, GB4 & GB6 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 8', 6' & 6' perf gun. Set plug @ 4760'. Perforate GB6 sds @ 4652-60', GB4 sds @ 4590-96', 4566-72 w/ 3-1/8" Slick Guns w/ 4 spf for total of 80 shots. RU BJ Services. 1308 psi on well. Frac GB4 & GB6 w/ 59,607#'s of 20/40 sand in 531 bbls of Lightning 17 fluid. Broke @ 1687 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1769 psi @ ave rate of 23.3 BPM. ISIP 2071 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed for 4 hrs. Turned to oil. Rec 670 BTF. SIWFN w/ 2763 BWTR.

---

**11/6/2008 Day: 6**
**Completion**

NC #1 on 11/5/2008 - 6:30AM OWU W/-800 Psi On Csg, Flowed 140 BW. R/U Wire Line To Set Kill Plg @ 4530'. R/D Wire Line, N/D 10,000 BOP & Frac Flng, N/U 3,000 Flng & 5,000 BOP. P/U & RIH W/-4 3/4" Bit, Bit Sub, 147 Jts Tbg To Plg @ 4530', R/U Nabors Swvl & R/pmp, Drill Up Plg, Swvl I/Hle To Plg @ 4760', Drill Up Plg, Swvl I/Hle To Plg @ 5110', Drill Up Plg, Swvl I/Hle To Plg @ 5270', Drill Up Plg, SWI, 6:00PM C/SDFN.

---

**11/7/2008 Day: 7**
**Completion**

NC #1 on 11/6/2008 - 6:30AM OWU, RIH W/-Tbg To Plg @ 5520', R/U Swvl & r/PMP, Drill Up Plg, Swvl I/Hle To Plg @ 6110', Drill Up Plg, Swvl I/Hle To Plg @ 6220', Drill Up Plg, Swvl I/Hle To Fill @ 6380', Drill & C/Out To PBTD @ 6463', Curc Well Cln. R/D Swvl, POOH W/-3 Jts Tbg, EOB @ 6375'. R/U Swab, Well Flowing, Made 2 Swab Runs, Recvred 46 BW. Turn Well Flowing To Production Tnk. Flowed 167 Bbls, 5:30PM SWI C/SDFN.

---

**11/8/2008 Day: 8**
**Completion**

NC #1 on 11/7/2008 - 6:30AM OWU, R/U R/pmp, pmp 30 Bbls Brine Wtr D/Tbg, RIH W/-3 Jts Tbg To PBTD @ 6463' No Fill, Curc Well Cln W/ Brine Wtr For Kill. POOH W/-210 Jts Tbg, Bit Sub & Bit. P/U & RIH W/-N/C, 2 Jts Tbg, S/N, 1 Jt Tbg, 5 1/2 T/A, 202 Jts Tbg, N/D BOP, Set T/A In 15,000 Tension, N/U W/-HD. Flush Tbg W/-60 Bbls Brine Wtr. P/U Stroke & RIH W/-CDI 2 1/2x1 3/4x20x20 1/2' RHAC, 21,000 Shear Coupling, 4-1 1/2 Wt Bars, 245-7/8 Guided Rods, 7/8x8' Pony Rod, 1



**1/2x26' Polish Rod, Seat pmp, R/U Unit, Fill Tbg W/-1 BW, Stroke Unit & Tbg To 800 Psi, Good Test. R/D Rig. POP @ 6:00PM, 122" SL, 4 SPM. ( Final Report ).**

---

**Pertinent Files: Go to File List**

**RECEIVED**

**NOV 25 2008**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. UTU-67845			
b. Type of Completion: <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resrv., Other: _____						6. If Indian, Allottee or Tribe Name NA			
2. Name of Operator NEWFIELD EXPLORATION COMPANY						7. Unit or CA Agreement Name and No. HUMPBAC			
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202						8. Lease Name and Well No. HUMPBAC FEDERAL R-25-8-17			
3a. Phone No. (include area code) (435)646-3721						9. AFI Well No. 43-047-39973			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface 667' FSL & 2014' FWL (SE/SW) SEC. 25, T8S, R17E  At top prod. interval reported below  At total depth 6474' 1471 fsl 2497' fcl per HSM review						10. Field and Pool or Exploratory MONUMENT BUTTE			
14. Date Spudded 10/05/2008						11. Sec., T., R., M., on Block and Survey or Area SEC. 25, T8S, R17E			
15. Date T.D. Reached 10/12/2008						12. County or Parish UINTAH		13. State UT	
16. Date Completed 11/07/2008 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.						17. Elevations (DF, RKB, RT, GL)* 5019' GL5031' KB			
18. Total Depth: MD 6474' TVD 6355'		19. Plug Back T.D.: MD 6463' TVD 6344'		20. Depth Bridge Plug Set: MD TVD		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		336'		160 CLASS G		68'	
7-7/8"	5-1/2" J-55	15.5#		6485'		350 PRIMLITE			
						475 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 6324'	TA @ 6227'							
25. Producing Intervals									
Formation	Top	Bottom	26. Perforation Record 4652						
A) GRRV			Perforated Interval	Size	No. Holes	Perf. Status			
B) per operator			(CP5) 6278-86'	.49"	4	32			
C)			(CP4) 6170-86'	.49"	4	64			
D)			(CP2) 5984-92' (CP1) 5984-9'	.49"	4	88			
			(B2) 5420-28' (B1) 5394-5404	.49"	4	72			
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval	Amount and Type of Material								
6278-6286'	Frac w/ 26656# of 20/40 sand 487 bbls fluid								
6170-6186'	Frac w/ 45902# 20/40 sand 502 bbls fluid								
5984-6060'	Frac w/ 60701# 20/40 sand 543 bbls fluid								
5394-5428'	Frac w/ 43288# 20/40 sand 488 bbls fluid								
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/07/08	11/15/08	24	→	43	74	20			2-1/2" x 1-3/4" x 20' x 20 1/2' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status PRODUCING	
			→						
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

RECEIVED

DEC 01 2008

DIV. OF OIL, GAS &amp; MINING

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	4102' 4284'
				GARDEN GULCH 2 POINT 3	4406' 4675"
				X MRKR Y MRKR	4908' 4944"
				DOUGALS CREEK MRK BI CARBONATE MRK	5084' 5326'
				B LIMESTON MRK CASTLE PEAK	N5932' P
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6360' 6488'

## 32. Additional remarks (include plugging procedure):

(D2) 5166-5172' .49" 4/24 5166-5172' Frac w/ 24048#'s of 20/40 sand in 363 bbls of fluid  
 (DS3) 5052-5060' .49" 4/32 5052-5060' Frac w/ 30157#'s of 20/40 sand in 405 bbls of fluid  
 (GB6) 4652-60' (GB4)4590-4596', 4566-4572' .49" 4/80 4566-4660 Frac w/ 59607#'s of 20/40 sand in 531 bbls of fluid

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Tammi Lee

Title Production Clerk

Signature

Date 11/24/2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



**Scientific  
Drilling**

## Directional Survey Certification

7327 West Barton Road  
Casper, WY 82604  
(307)-472-6621 Fax (307) 472-5439

<b>Operator</b>	<u>Newfield Production Co.</u>
<b>Well Name &amp; No.</b>	<u>Humpback R-25-8-17</u>
<b>County &amp; State</b>	<u>Uintah County, UT</u>
<b>SDI Job No.</b>	<u>42DEF0810855</u>
<b>Rig</b>	<u>Patterson 52</u>

I, Julie Cruse, having personal knowledge of all the facts, hereby  
certify that the attached directional survey run from a measured depth of 376 feet to a  
measured depth of 6485 feet is true and correct as determined from all available records.

Signature

17-Oct-08

Date

**Julie Cruse**

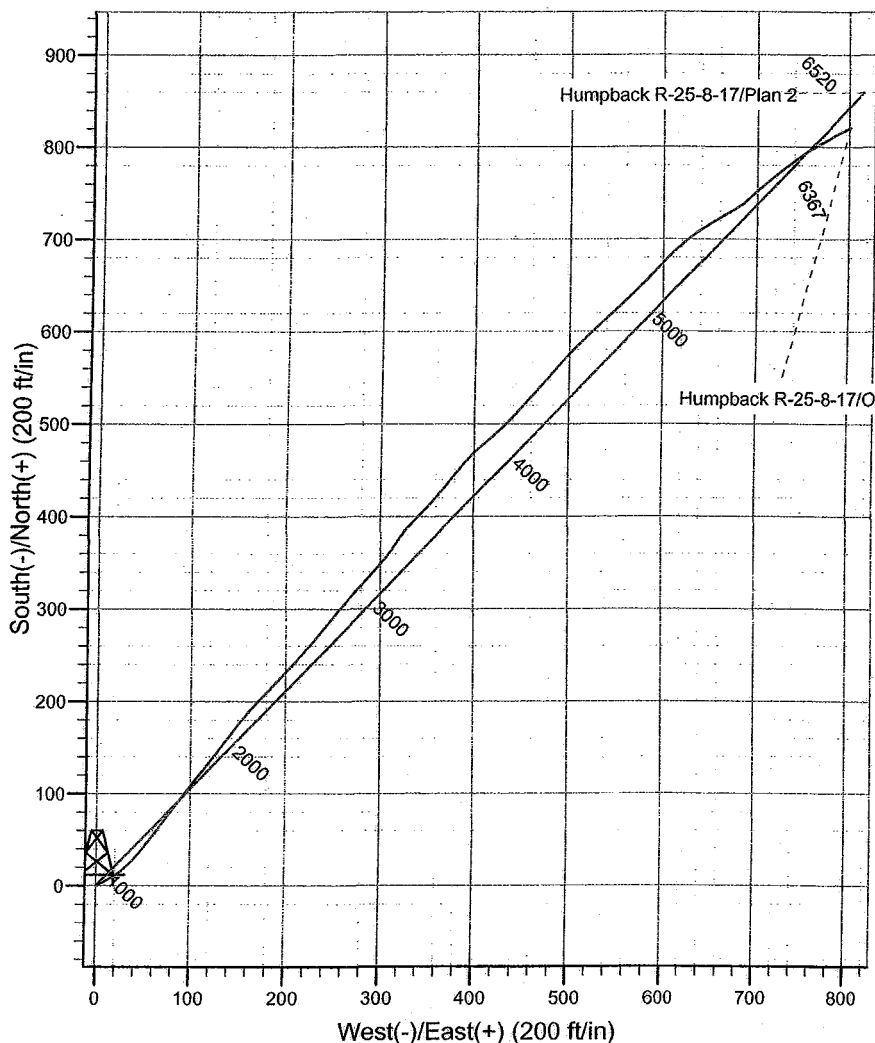
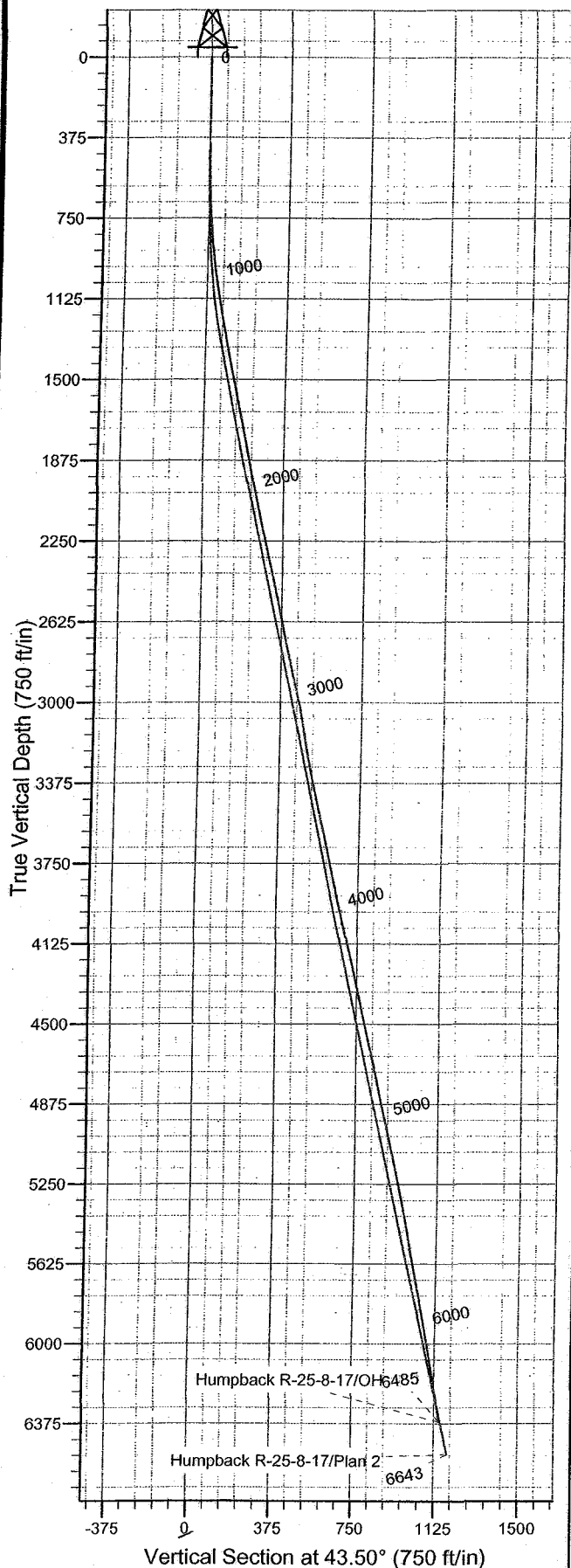
Rockies Region Engineer  
Scientific Drilling - Rocky Mountain District



**Scientific Drilling**  
Rocky Mountain Operations

Project: Uintah County, UT NAD83 UTC  
Site: Humpback  
Well: Humpback R-25-8-17  
Wellbore: OH  
Design: OH

**Newfield Exploration Co.**



#### WELL DETAILS: Humpback R-25-8-17

+N/-S	+E/-W	Ground Level:	GL 5019' & RKB 12' @ 5031.00ft (Patterson 52)	Slot
		Northing	Easting	Latitude
0.00	0.00	7202887.51	2072084.46	40° 5' 0.710 N
				109° 57' 25.710 W

#### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Humpback R-25-8-17, True North  
Vertical (TVD) Reference: GL 5019' & RKB 12' @ 5031.00ft (Patterson 52)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: GL 5019' & RKB 12' @ 5031.00ft (Patterson 52)  
Calculation Method: Minimum Curvature  
Local North: True  
Location:

PROJECT DETAILS: Uintah County, UT NAD83 UTC

Design: OH (Humpback R-25-8-17/OH)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

Created By: Laura Turner Date: 2008-10-17

# **Newfield Exploration Co.**

**Uintah County, UT NAD83 UTC**

**Humpback**

**Humpback R-25-8-17**

**OH**

**Design: OH**

## **Standard Survey Report**

**17 October, 2008**

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Uintah County, UT NAD83 UTC  
**Site:** Humpback  
**Well:** Humpback R-25-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Humpback R-25-8-17  
**TVD Reference:** GL 5019' & RKB 12' @ 5031.00ft (Patterson 52)  
**MD Reference:** GL 5019' & RKB 12' @ 5031.00ft (Patterson 52)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User Db

<b>Project</b>	Uintah County, UT NAD83 UTC		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	Humpback			
<b>Site Position:</b>		<b>Northing:</b>	7,205,829.64 ft	<b>Latitude:</b> 40° 5' 29.840 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,071,750.01 ft	<b>Longitude:</b> 109° 57' 29.360 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b> 0.99 °

<b>Well</b>	Humpback R-25-8-17, 667' FSL 2014' FWL Sec 25 T8S R17E			
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 7,202,887.51 ft	<b>Latitude:</b> 40° 5' 0.710 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,072,084.46 ft	<b>Longitude:</b> 109° 57' 25.710 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b> 5,019.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF2005-10	2008-10-03	(°)	(°)	(nT)
			11.61	65.92	52,603

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	43.50	

<b>Survey Program</b>	<b>Date</b> 2008-10-17				
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
(ft)	(ft)				
376.00	6,485.00	Survey #1 (OH)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
376.00	0.21	168.85	376.00	-0.68	0.13	-0.40	0.06	0.06	0.00
First MWD Survey									
469.00	1.06	59.91	468.99	-0.41	0.91	0.33	1.23	0.91	-117.14
561.00	1.13	53.25	560.98	0.56	2.37	2.04	0.16	0.08	-7.24
652.00	2.66	58.98	651.92	2.18	4.90	4.96	1.69	1.68	6.30
745.00	4.54	63.48	744.74	4.94	10.05	10.50	2.04	2.02	4.84
837.00	5.75	58.33	836.37	8.98	17.23	18.37	1.41	1.32	-5.60
932.00	6.59	50.94	930.82	14.92	25.51	28.38	1.22	0.88	-7.78
1,026.00	9.53	44.25	1,023.88	23.89	35.13	41.51	3.28	3.13	-7.12
1,121.00	10.43	37.99	1,117.44	36.30	45.91	57.94	1.48	0.95	-6.59
1,217.00	10.98	37.32	1,211.77	50.42	56.80	75.68	0.59	0.57	-0.70
1,312.00	11.17	36.31	1,305.00	65.03	67.74	93.80	0.29	0.20	-1.06

# Scientific Drilling

## Survey Report

Company: Newfield Exploration Co.  
Project: Uintah County, UT NAD83 UTC  
Site: Humpback  
Well: Humpback R-25-8-17  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well Humpback R-25-8-17  
TVD Reference: GL 5019' & RKB 12' @ 5031.00ft (Patterson 52)  
MD Reference: GL 5019' & RKB 12' @ 5031.00ft (Patterson 52)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.16 Multi User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,407.00	12.50	36.30	1,397.98	80.73	79.27	113.13	1.40	1.40	-0.01
1,502.00	12.51	37.58	1,490.73	97.17	91.63	133.56	0.29	0.01	1.35
1,598.00	12.34	36.48	1,584.48	113.66	104.07	154.09	0.30	-0.18	-1.15
1,693.00	12.06	38.53	1,677.33	129.59	116.29	174.05	0.54	-0.29	2.16
1,788.00	11.82	37.94	1,770.28	145.03	128.46	193.62	0.28	-0.25	-0.62
1,884.00	11.27	34.98	1,864.34	160.47	139.88	212.68	0.84	-0.57	-3.08
1,979.00	11.09	36.59	1,957.53	175.41	150.65	230.94	0.38	-0.19	1.69
2,074.00	11.19	41.08	2,050.75	189.69	162.15	249.22	0.92	0.11	4.73
2,169.00	13.21	43.15	2,143.60	204.56	175.63	269.28	2.18	2.13	2.18
2,263.00	12.70	42.26	2,235.20	220.05	189.93	290.35	0.58	-0.54	-0.95
2,359.00	12.14	43.04	2,328.96	235.23	203.91	311.00	0.61	-0.58	0.81
2,454.00	12.88	40.88	2,421.70	250.54	217.66	331.56	0.92	0.78	-2.27
2,549.00	13.36	38.69	2,514.22	267.11	231.45	353.08	0.73	0.51	-2.31
2,644.00	11.47	37.05	2,607.00	283.22	244.01	373.40	2.02	-1.99	-1.73
2,740.00	11.73	40.52	2,701.04	298.26	256.10	392.63	0.78	0.27	3.61
2,835.00	12.14	41.89	2,793.98	313.03	269.04	412.26	0.52	0.43	1.44
2,930.00	12.88	40.92	2,886.73	328.47	282.65	432.83	0.81	0.78	-1.02
3,025.00	13.91	41.47	2,979.14	345.03	297.14	454.82	1.09	1.08	0.58
3,121.00	9.46	34.91	3,073.13	360.15	309.31	474.16	4.83	-4.64	-6.83
3,216.00	9.67	32.47	3,166.81	373.29	318.06	489.71	0.48	0.22	-2.57
3,311.00	10.87	41.97	3,260.29	386.68	328.33	506.50	2.18	1.26	10.00
3,406.00	13.20	45.15	3,353.20	400.99	342.02	526.30	2.55	2.45	3.35
3,502.00	11.50	40.43	3,446.98	416.01	355.99	546.81	2.06	-1.77	-4.92
3,597.00	14.37	39.97	3,539.56	432.25	369.71	568.04	3.02	3.02	-0.48
3,692.00	12.76	36.14	3,631.91	449.76	383.47	590.21	1.94	-1.69	-4.03
3,787.00	12.34	46.17	3,724.65	465.27	396.99	610.76	2.33	-0.44	10.56
3,881.00	12.61	46.75	3,816.43	479.25	411.70	631.04	0.32	0.29	0.62
3,977.00	13.12	46.22	3,910.02	493.97	427.20	652.38	0.55	0.53	-0.55
4,072.00	13.67	41.82	4,002.44	509.80	442.47	674.37	1.22	0.58	-4.63
4,167.00	12.90	41.29	4,094.89	526.13	456.96	696.19	0.82	-0.81	-0.56
4,263.00	13.16	41.42	4,188.42	542.38	471.26	717.82	0.27	0.27	0.14
4,358.00	12.90	41.52	4,280.98	558.43	485.44	739.23	0.27	-0.27	0.11
4,453.00	12.50	40.85	4,373.65	574.14	499.20	760.09	0.45	-0.42	-0.71
4,548.00	11.84	47.03	4,466.52	588.57	513.05	780.09	1.54	-0.69	6.51
4,643.00	13.10	45.97	4,559.28	602.69	527.93	800.58	1.35	1.33	-1.12
4,738.00	13.11	46.25	4,651.80	617.62	543.45	822.09	0.07	0.01	0.29
4,832.00	12.08	46.97	4,743.54	631.71	558.34	842.56	1.11	-1.10	0.77
4,928.00	11.63	43.26	4,837.49	645.61	572.31	862.26	0.92	-0.47	-3.86
5,023.00	12.35	44.35	4,930.42	659.85	585.98	882.00	0.79	0.76	1.15
5,119.00	12.20	44.11	5,024.23	674.47	600.22	902.41	0.17	-0.16	-0.25
5,214.00	12.48	46.52	5,117.03	688.74	614.65	922.70	0.62	0.29	2.54
5,309.00	12.37	50.66	5,209.81	702.26	629.97	943.04	0.94	-0.12	4.36
5,394.23	10.98	55.76	5,293.28	712.62	643.74	960.04	2.03	-1.63	5.98
<b>H R-25-8-17 Target</b>									
5,404.00	10.83	56.42	5,302.87	713.65	645.28	961.84	2.03	-1.56	6.81
5,499.00	11.42	59.45	5,396.08	723.36	660.81	979.58	0.87	0.62	3.19
5,592.00	9.80	60.63	5,487.49	731.93	675.64	996.00	1.76	-1.74	1.27
5,687.00	9.37	47.39	5,581.18	741.13	688.38	1,011.44	2.36	-0.45	-13.94
5,782.00	10.95	48.50	5,674.68	752.34	700.83	1,028.15	1.68	1.66	1.17
5,878.00	11.09	48.75	5,768.91	764.47	714.60	1,046.43	0.15	0.15	0.26
5,973.00	10.71	52.25	5,862.20	775.90	728.45	1,064.25	0.80	-0.40	3.68
6,068.00	9.83	53.98	5,955.68	786.07	741.99	1,080.95	0.98	-0.93	1.82
6,164.00	9.09	57.19	6,050.37	795.00	754.99	1,096.37	0.95	-0.77	3.34
6,259.00	10.46	58.41	6,143.99	803.59	768.64	1,112.00	1.46	1.44	1.28